



DOC0216USSEQ2.txt  
SEQUENCE LISTING

<110> Rosanne M. Crooke  
Mark J. Graham  
Kristina Lemonidis Tarbet  
Kenneth W. Dobie  
Susan M. Freier

<120> ANTISENSE MODULATION OF APOLIPOPROTEIN B EXPRESSION

<130> DOC-0216US(ISIS.003CP1)

<140> US 10/712,795

<141> 2003-11-13

<150> US 60/426,234

<151> 2002-11-13

<150> PCT/US03/15493

<151> 2003-05-15

<160> 897

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense oligonucleotide

<400> 1

tccgtcatcg ctcctcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense oligonucleotide

<400> 2

atgcattctg cccccaagga

20

<210> 3

<211> 14121

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(13820)

<400> 3

attccccaccg ggacctgctg ggctgagtg ccttctcggt tgctgccgct gaggagcccg 60

cccagccagc cagggccgcg aggccgaggg caggccgcag cccaggagcc gccccaccgc 120

agctggcg atg gac ccg ccg agg ccc gcg ctg ctg gcg ctg ctg gcg ctg 170

Met Asp Pro Pro Arg Pro Ala Leu Leu Ala Leu Leu Ala Leu

1

5

10

cct gcg ctg ctg ctg ctg ctg ctg gcg ggc gcc agg gcc gaa gag gaa 218

Pro Ala Leu Leu Leu Leu Leu Leu Ala Gly Ala Arg Ala Glu Glu Glu

15

20

25

30

## DOC0216USSEQ2.txt

atg	ctg	gaa	aat	gtc	agc	ctg	gtc	tgt	cca	aaa	gat	gcg	acc	cga	ttc	266
Met	Leu	Glu	Asn	Val	Ser	Leu	Val	Cys	Pro	Lys	Asp	Ala	Thr	Arg	Phe	
				35					40					45		
aag	cac	ctc	cgg	aag	tac	aca	tac	aac	tat	gag	gct	gag	agt	tcc	agt	314
Lys	His	Leu	Arg	Lys	Tyr	Thr	Tyr	Asn	Tyr	Glu	Ala	Glu	Ser	Ser	Ser	
			50					55					60			
gga	gtc	cct	ggg	act	gct	gat	tca	aga	agt	gcc	acc	agg	atc	aac	tgc	362
Gly	Val	Pro	Gly	Thr	Ala	Asp	Ser	Arg	Ser	Ala	Thr	Arg	Ile	Asn	Cys	
		65					70					75				
aag	gtt	gag	ctg	gag	gtt	ccc	cag	ctc	tgc	agc	ttc	atc	ctg	aag	acc	410
Lys	Val	Glu	Leu	Glu	Val	Pro	Gln	Leu	Cys	Ser	Phe	Ile	Leu	Lys	Thr	
	80					85					90					
agc	cag	tgc	acc	ctg	aaa	gag	gtg	tat	ggc	ttc	aac	cct	gag	ggc	aaa	458
Ser	Gln	Cys	Thr	Leu	Lys	Glu	Val	Tyr	Gly	Phe	Asn	Pro	Glu	Gly	Lys	
95				100					105						110	
gcc	ttg	ctg	aag	aaa	acc	aag	aac	tct	gag	gag	ttt	gct	gca	gcc	atg	506
Ala	Leu	Leu	Lys	Lys	Thr	Lys	Asn	Ser	Glu	Glu	Phe	Ala	Ala	Ala	Met	
				115					120					125		
tcc	agg	tat	gag	ctc	aag	ctg	gcc	att	cca	gaa	ggg	aag	cag	gtt	ttc	554
Ser	Arg	Tyr	Glu	Leu	Lys	Leu	Ala	Ile	Pro	Glu	Gly	Lys	Gln	Val	Phe	
			130					135					140			
ctt	tac	ccg	gag	aaa	gat	gaa	cct	act	tac	atc	ctg	aac	atc	aag	agg	602
Leu	Tyr	Pro	Glu	Lys	Asp	Glu	Pro	Thr	Tyr	Ile	Leu	Asn	Ile	Lys	Arg	
		145					150					155				
ggc	atc	att	tct	gcc	ctc	ctg	gtt	ccc	cca	gag	aca	gaa	gaa	gcc	aag	650
Gly	Ile	Ile	Ser	Ala	Leu	Leu	Val	Pro	Pro	Glu	Thr	Glu	Glu	Ala	Lys	
	160					165					170					
caa	gtg	ttg	ttt	ctg	gat	acc	gtg	tat	gga	aac	tgc	tcc	act	cac	ttt	698
Gln	Val	Leu	Phe	Leu	Asp	Thr	Val	Tyr	Gly	Asn	Cys	Ser	Thr	His	Phe	
175				180					185						190	
acc	gtc	aag	acg	agg	aag	ggc	aat	gtg	gca	aca	gaa	ata	tcc	act	gaa	746
Thr	Val	Lys	Thr	Arg	Lys	Gly	Asn	Val	Ala	Thr	Glu	Ile	Ser	Thr	Glu	
				195					200					205		
aga	gac	ctg	ggg	cag	tgt	gat	cgc	ttc	aag	ccc	atc	cgc	aca	ggc	atc	794
Arg	Asp	Leu	Gly	Gln	Cys	Asp	Arg	Phe	Lys	Pro	Ile	Arg	Thr	Gly	Ile	
			210					215					220			
agc	cca	ctt	gct	ctc	atc	aaa	ggc	atg	acc	cgc	ccc	ttg	tca	act	ctg	842
Ser	Pro	Leu	Ala	Leu	Ile	Lys	Gly	Met	Thr	Arg	Pro	Leu	Ser	Thr	Leu	
		225					230					235				
atc	agc	agc	agc	cag	tcc	tgt	cag	tac	aca	ctg	gac	gct	aag	agg	aag	890
Ile	Ser	Ser	Ser	Gln	Ser	Cys	Gln	Tyr	Thr	Leu	Asp	Ala	Lys	Arg	Lys	
	240					245					250					
cat	gtg	gca	gaa	gcc	atc	tgc	aag	gag	caa	cac	ctc	ttc	ctg	cct	ttc	938
His	Val	Ala	Glu	Ala	Ile	Cys	Lys	Glu	Gln	His	Leu	Phe	Leu	Pro	Phe	
255				260					265						270	
tcc	tac	aac	aat	aag	tat	ggg	atg	gta	gca	caa	gtg	aca	cag	act	ttg	986
Ser	Tyr	Asn	Asn	Lys	Tyr	Gly	Met	Val	Ala	Gln	Val	Thr	Gln	Thr	Leu	
				275					280					285		
aaa	ctt	gaa	gac	aca	cca	aag	atc	aac	agc	cgc	ttc	ttt	ggt	gaa	ggt	1034

DOC0216USSEQ2.txt

Lys	Leu	Glu	Asp 290	Thr	Pro	Lys	Ile	Asn 295	Ser	Arg	Phe	Phe	Gly 300	Glu	Gly		
act	aag	aag	atg	ggc	ctc	gca	ttt	gag	agc	acc	aaa	tcc	aca	tca	cct	1082	
Thr	Lys	Lys 305	Met	Gly	Leu	Ala	Phe 310	Glu	Ser	Thr	Lys	Ser 315	Thr	Ser	Pro		
cca	aag	cag	gcc	gaa	gct	gtt	ttg	aag	act	ctc	cag	gaa	ctg	aaa	aaa	1130	
Pro	Lys 320	Gln	Ala	Glu	Ala	Val 325	Leu	Lys	Thr	Leu	Gln 330	Glu	Leu	Lys	Lys		
cta	acc	atc	tct	gag	caa	aat	atc	cag	aga	gct	aat	ctc	ttc	aat	aag	1178	
Leu	Thr	Ile	Ser	Glu	Gln 340	Asn	Ile	Gln	Arg	Ala 345	Asn	Leu	Phe	Asn	Lys 350		
ctg	gtt	act	gag	ctg	aga	ggc	ctc	agt	gat	gaa	gca	gtc	aca	tct	ctc	1226	
Leu	Val	Thr	Glu	Leu 355	Arg	Gly	Leu	Ser	Asp 360	Glu	Ala	Val	Thr	Ser 365	Leu		
ttg	cca	cag	ctg	att	gag	gtg	tcc	agc	ccc	atc	act	tta	caa	gcc	ttg	1274	
Leu	Pro	Gln	Leu 370	Ile	Glu	Val	Ser	Ser 375	Pro	Ile	Thr	Leu	Gln 380	Ala	Leu		
gtt	cag	tgt	gga	cag	cct	cag	tgc	tcc	act	cac	atc	ctc	cag	tgg	ctg	1322	
Val	Gln	Cys 385	Gly	Gln	Pro	Gln	Cys 390	Ser	Thr	His	Ile	Leu 395	Gln	Trp	Leu		
aaa	cgt	gtg	cat	gcc	aac	ccc	ctt	ctg	ata	gat	gtg	gtc	acc	tac	ctg	1370	
Lys	Arg 400	Val	His	Ala	Asn	Pro 405	Leu	Leu	Ile	Asp	Val 410	Val	Thr	Tyr	Leu		
gtg	gcc	ctg	atc	ccc	gag	ccc	tca	gca	cag	cag	ctg	cga	gag	atc	ttc	1418	
Val	Ala	Leu	Ile	Pro	Glu 420	Pro	Ser	Ala	Gln	Gln 425	Leu	Arg	Glu	Ile	Phe 430		
aac	atg	gcg	agg	gat	cag	cgc	agc	cga	gcc	acc	ttg	tat	gcg	ctg	agc	1466	
Asn	Met	Ala	Arg	Asp 435	Gln	Arg	Ser	Arg	Ala 440	Thr	Leu	Tyr	Ala	Leu 445	Ser		
cac	gcg	gtc	aac	aac	tat	cat	aag	aca	aac	cct	aca	ggg	acc	cag	gag	1514	
His	Ala	Val	Asn 450	Asn	Tyr	His	Lys	Thr 455	Asn	Pro	Thr	Gly	Thr 460	Gln	Glu		
ctg	ctg	gac	att	gct	aat	tac	ctg	atg	gaa	cag	att	caa	gat	gac	tgc	1562	
Leu	Leu	Asp 465	Ile	Ala	Asn	Tyr	Leu 470	Met	Glu	Gln	Ile	Gln 475	Asp	Asp	Cys		
act	ggg	gat	gaa	gat	tac	acc	tat	ttg	att	ctg	cgg	gtc	att	gga	aat	1610	
Thr	Gly 480	Asp	Glu	Asp	Tyr	Thr 485	Tyr	Leu	Ile	Leu	Arg 490	Val	Ile	Gly	Asn		
atg	ggc	caa	acc	atg	gag	cag	tta	act	cca	gaa	ctc	aag	tct	tca	atc	1658	
Met	Gly	Gln	Thr	Met	Glu 500	Gln	Leu	Thr	Pro	Glu 505	Leu	Lys	Ser	Ser	Ile 510		
ctc	aaa	tgt	gtc	caa	agt	aca	aag	cca	tca	ctg	atg	atc	cag	aaa	gct	1706	
Leu	Lys	Cys	Val 515	Gln	Ser	Thr	Lys	Pro	Ser 520	Leu	Met	Ile	Gln	Lys 525	Ala		
gcc	atc	cag	gct	ctg	cgg	aaa	atg	gag	cct	aaa	gac	aag	gac	cag	gag	1754	
Ala	Ile	Gln	Ala 530	Leu	Arg	Lys	Met	Glu 535	Pro	Lys	Asp	Lys	Asp 540	Gln	Glu		
gtt	ctt	ctt	cag	act	ttc	ctt	gat	gat	gct	tct	ccg	gga	gat	aag	cga	1802	
Val	Leu	Leu 545	Gln	Thr	Phe	Leu	Asp 550	Asp	Ala	Ser	Pro	Gly 555	Asp	Lys	Arg		

## DOC0216USSEQ2.txt

ctg Leu	gct Ala 560	gcc Ala	tat Tyr	ctt Leu	atg Met	ttg Leu 565	atg Met	agg Arg	agt Ser	cct Pro	tca Ser 570	cag Gln	gca Ala	gat Asp	att Ile	1850
aac Asn 575	aaa Lys	att Ile	gtc Val	caa Gln	att Ile 580	cta Leu	cca Pro	tgg Trp	gaa Glu	cag Gln 585	aat Asn	gag Glu	caa Gln	gtg Val	aag Lys 590	1898
aac Asn	ttt Phe	gtg Val	gct Ala	tcc Ser 595	cat His	att Ile	gcc Ala	aat Asn	atc Ile 600	ttg Leu	aac Asn	tca Ser	gaa Glu	gaa Glu 605	ttg Leu	1946
gat Asp	atc Ile	caa Gln	gat Asp 610	ctg Leu	aaa Lys	aag Lys	tta Leu	gtg Val 615	aaa Lys	gaa Glu	gct Ala	ctg Leu	aaa Lys 620	gaa Glu	tct Ser	1994
caa Gln	ctt Leu	cca Pro 625	act Thr	gtc Val	atg Met	gac Asp	ttc Phe 630	aga Arg	aaa Lys	ttc Phe	tct Ser	cgg Arg 635	aac Asn	tat Tyr	caa Gln	2042
ctc Leu	tac Tyr 640	aaa Lys	tct Ser	gtt Val	tct Ser	ctt Leu 645	cca Pro	tca Ser	ctt Leu	gac Asp 650	cca Pro	gcc Ala	tca Ser	gcc Ala	aaa Lys	2090
ata Ile 655	gaa Glu	ggg Gly	aat Asn	ctt Leu	ata Ile 660	ttt Phe	gat Asp	cca Pro	aat Asn	aac Asn 665	tac Tyr	ctt Leu	cct Pro	aaa Lys	gaa Glu 670	2138
agc Ser	atg Met	ctg Leu	aaa Lys	act Thr 675	acc Thr	ctc Leu	act Thr	gcc Ala	ttt Phe 680	gga Gly	ttt Phe	gct Ala	tca Ser	gct Ala 685	gac Asp	2186
ctc Leu	atc Ile	gag Glu	att Ile 690	ggc Gly	ttg Leu	gaa Glu	gga Gly	aaa Lys 695	ggc Gly	ttt Phe	gag Glu	cca Pro	aca Thr 700	ttg Leu	gaa Glu	2234
gct Ala	ctt Leu	ttt Phe 705	ggg Gly	aag Lys	caa Gln	gga Gly	ttt Phe 710	ttc Phe	cca Pro	gac Asp	agt Ser	gtc Val 715	aac Asn	aaa Lys	gct Ala	2282
ttg Leu	tac Tyr 720	tgg Trp	gtt Val	aat Asn	ggg Gly	caa Gln 725	gtt Val	cct Pro	gat Asp	ggg Gly	gtc Val 730	tct Ser	aag Lys	gtc Val	tta Leu	2330
gtg Val 735	gac Asp	cac His	ttt Phe	ggc Gly	tat Tyr 740	acc Thr	aaa Lys	gat Asp	gat Asp	aaa Lys 745	cat His	gag Glu	cag Gln	gat Asp	atg Met 750	2378
gta Val	aat Asn	gga Gly	ata Ile	atg Met 755	ctc Leu	agt Ser	gtt Val	gag Glu	aag Lys 760	ctg Leu	att Ile	aaa Lys	gat Asp	ttg Leu 765	aaa Lys	2426
tcc Ser	aaa Lys	gaa Glu	gtc Val 770	ccg Pro	gaa Glu	gcc Ala	aga Arg	gcc Ala 775	tac Tyr	ctc Leu	cgc Arg	atc Ile	ttg Leu 780	gga Gly	gag Glu	2474
gag Glu	ctt Leu	ggg Gly 785	ttt Phe	gcc Ala	agt Ser	ctc Leu	cat His 790	gac Asp	ctc Leu	cag Gln	ctc Leu	ctg Leu 795	gga Gly	aag Lys	ctg Leu	2522
ctt Leu 800	ctg Leu	atg Met	ggg Gly	gcc Ala	cgc Arg	act Thr 805	ctg Leu	cag Gln	ggg Gly	atc Ile	ccc Pro 810	cag Gln	atg Met	att Ile	gga Gly	2570
gag Glu	gtc Val	atc Ile	agg Arg	aag Lys	ggc Gly	tca Ser	aag Lys	aat Asn	gac Asp	ttt Phe	ttt Phe	ctt Leu	cac His	tac Tyr	atc Ile	2618

815	820							825							830			
ttc Phe	atg Met	gag Glu	aat Asn	gcc Ala 835	ttt Phe	gaa Glu	ctc Leu	ccc Pro	act Thr 840	gga Gly	gct Ala	gga Gly	tta Leu	cag Gln 845	ttg Leu	2666		
caa Gln	ata Ile	tct Ser	tca Ser 850	tct Ser	gga Gly	gtc Val	att Ile	gct Ala 855	ccc Pro	gga Gly	gcc Ala	aag Lys	gct Ala 860	gga Gly	gta Val	2714		
aaa Lys	ctg Leu	gaa Glu 865	gta Val	gcc Ala	aac Asn	atg Met	cag Gln 870	gct Ala	gaa Glu	ctg Leu	gtg Val	gca Ala 875	aaa Lys	ccc Pro	tcc Ser	2762		
gtg Val	tct Ser 880	gtg Val	gag Glu	ttt Phe	gtg Val	aca Thr 885	aat Asn	atg Met	ggc Gly	atc Ile	atc Ile 890	att Ile	ccg Pro	gac Asp	ttc Phe	2810		
gct Ala 895	agg Arg	agt Ser	ggg Gly	gtc Val	cag Gln 900	atg Met	aac Asn	acc Thr	aac Asn	ttc Phe 905	ttc Phe	cac His	gag Glu	tcg Ser	ggt Gly 910	2858		
ctg Leu	gag Glu	gct Ala	cat His	gtt Val 915	gcc Ala	cta Leu	aaa Lys	gct Ala	ggg Gly 920	aag Lys	ctg Leu	aag Lys	ttt Phe	atc Ile 925	att Ile	2906		
cct Pro	tcc Ser	cca Pro	aag Lys 930	aga Arg	cca Pro	gtc Val	aag Lys	ctg Leu 935	ctc Leu	agt Ser	gga Gly	ggc Gly	aac Asn 940	aca Thr	tta Leu	2954		
cat His	ttg Leu	gtc Val 945	tct Ser	acc Thr	acc Thr	aaa Lys	acg Thr 950	gag Glu	gtg Val	atc Ile	cca Pro	cct Pro 955	ctc Leu	att Ile	gag Glu	3002		
aac Asn	agg Arg 960	cag Gln	tcc Ser	tgg Trp	tca Ser	gtt Val 965	tgc Cys	aag Lys	caa Gln	gtc Val	ttt Phe 970	cct Pro	ggc Gly	ctg Leu	aat Asn	3050		
tac Tyr 975	tgc Cys	acc Thr	tca Ser	ggc Gly	gct Ala 980	tac Tyr	tcc Ser	aac Asn	gcc Ala	agc Ser 985	tcc Ser	aca Thr	gac Asp	tcc Ser	gcc Ala 990	3098		
tcc Ser	tac Tyr	tat Tyr	ccg Pro	ctg Leu 995	acc Thr	ggg Gly	gac Asp	acc Thr	aga Arg 1000	tta Leu	gag Glu	ctg Leu	gaa Glu	ctg Leu 1005	agg Arg	3146		
cct Pro	aca Thr	gga Gly	gag Glu 1010	att Ile	gag Glu	cag Gln	tat Tyr	tct Ser 1015	gtc Val	agc Ser	gca Ala	acc Thr	tat Tyr 1020	gag Glu	ctc Leu	3194		
cag Gln	aga Arg	gag Glu 1025	gac Asp	aga Arg	gcc Ala	ttg Leu	gtg Val 1030	gat Asp	acc Thr	ctg Leu	aag Lys	ttt Phe 1035	gta Val	act Thr	caa Gln	3242		
gca Ala	gaa Glu 1040	ggt Gly	gcg Ala	aag Lys	cag Gln	act Thr 1045	gag Glu	gct Ala	acc Thr	atg Met	aca Thr 1050	ttc Phe	aaa Lys	tat Tyr	aat Asn	3290		
cgg Arg 1055	cag Gln	agt Ser	atg Met	acc Thr	ttg Leu 1060	tcc Ser	agt Ser	gaa Glu	gtc Val	caa Gln 1065	att Ile	ccg Pro	gat Asp	ttt Phe	gat Asp 1070	3338		
gtt Val	gac Asp	ctc Leu	gga Gly	aca Thr 1075	atc Ile	ctc Leu	aga Arg	gtt Val	aat Asn 1080	gat Asp	gaa Glu	tct Ser	act Thr	gag Glu 1085	ggc Gly	3386		
aaa	acg	tct	tac	aga	ctc	acc	ctg	gac	att	cag	aac	aag	aaa	att	act	3434		

Lys	Thr	Ser	Tyr	Arg	Leu	Thr	Leu	Asp	Ile	Gln	Asn	Lys	Lys	Ile	Thr		
			1090					1095					1100				
gag	gtc	gcc	ctc	atg	ggc	cac	cta	agt	tgt	gac	aca	aag	gaa	gaa	aga	3482	
Glu	Val	Ala	Leu	Met	Gly	His	Leu	Ser	Cys	Asp	Thr	Lys	Glu	Glu	Arg		
		1105					1110					1115					
aaa	atc	aag	ggt	gtt	att	tcc	ata	ccc	cgt	ttg	caa	gca	gaa	gcc	aga	3530	
Lys	Ile	Lys	Gly	Val	Ile	Ser	Ile	Pro	Arg	Leu	Gln	Ala	Glu	Ala	Arg		
	1120					1125					1130						
agt	gag	atc	ctc	gcc	cac	tgg	tcg	cct	gcc	aaa	ctg	ctt	ctc	caa	atg	3578	
Ser	Glu	Ile	Leu	Ala	His	Trp	Ser	Pro	Ala	Lys	Leu	Leu	Leu	Gln	Met		
1135					1140					1145					1150		
gac	tca	tct	gct	aca	gct	tat	ggc	tcc	aca	gtt	tcc	aag	agg	gtg	gca	3626	
Asp	Ser	Ser	Ala	Thr	Ala	Tyr	Gly	Ser	Thr	Val	Ser	Lys	Arg	Val	Ala		
				1155					1160					1165			
tgg	cat	tat	gat	gaa	gag	aag	att	gaa	ttt	gaa	tgg	aac	aca	ggc	acc	3674	
Trp	His	Tyr	Asp	Glu	Glu	Lys	Ile	Glu	Phe	Glu	Trp	Asn	Thr	Gly	Thr		
			1170					1175					1180				
aat	gta	gat	acc	aaa	aaa	atg	act	tcc	aat	ttc	cct	gtg	gat	ctc	tcc	3722	
Asn	Val	Asp	Thr	Lys	Lys	Met	Thr	Ser	Asn	Phe	Pro	Val	Asp	Leu	Ser		
		1185					1190					1195					
gat	tat	cct	aag	agc	ttg	cat	atg	tat	gct	aat	aga	ctc	ctg	gat	cac	3770	
Asp	Tyr	Pro	Lys	Ser	Leu	His	Met	Tyr	Ala	Asn	Arg	Leu	Leu	Asp	His		
	1200					1205					1210						
aga	gtc	cct	gaa	aca	gac	atg	act	ttc	cgg	cac	gtg	ggt	tcc	aaa	tta	3818	
Arg	Val	Pro	Glu	Thr	Asp	Met	Thr	Phe	Arg	His	Val	Gly	Ser	Lys	Leu		
1215					1220				1225						1230		
ata	gtt	gca	atg	agc	tca	tgg	ctt	cag	aag	gca	tct	ggg	agt	ctt	cct	3866	
Ile	Val	Ala	Met	Ser	Ser	Trp	Leu	Gln	Lys	Ala	Ser	Gly	Ser	Leu	Pro		
				1235					1240					1245			
tat	acc	cag	act	ttg	caa	gac	cac	ctc	aat	agc	ctg	aag	gag	ttc	aac	3914	
Tyr	Thr	Gln	Thr	Leu	Gln	Asp	His	Leu	Asn	Ser	Leu	Lys	Glu	Phe	Asn		
			1250					1255					1260				
ctc	cag	aac	atg	gga	ttg	cca	gac	ttc	cac	atc	cca	gaa	aac	ctc	ttc	3962	
Leu	Gln	Asn	Met	Gly	Leu	Pro	Asp	Phe	His	Ile	Pro	Glu	Asn	Leu	Phe		
		1265					1270					1275					
tta	aaa	agc	gat	ggc	cgg	gtc	aaa	tat	acc	ttg	aac	aag	aac	agt	ttg	4010	
Leu	Lys	Ser	Asp	Gly	Arg	Val	Lys	Tyr	Thr	Leu	Asn	Lys	Asn	Ser	Leu		
	1280					1285					1290						
aaa	att	gag	att	cct	ttg	cct	ttt	ggt	ggc	aaa	tcc	tcc	aga	gat	cta	4058	
Lys	Ile	Glu	Ile	Pro	Leu	Pro	Phe	Gly	Gly	Lys	Ser	Ser	Arg	Asp	Leu		
1295					1300					1305					1310		
aag	atg	tta	gag	act	gtt	agg	aca	cca	gcc	ctc	cac	ttc	aag	tct	gtg	4106	
Lys	Met	Leu	Glu	Thr	Val	Arg	Thr	Pro	Ala	Leu	His	Phe	Lys	Ser	Val		
				1315					1320					1325			
gga	ttc	cat	ctg	cca	tct	cga	gag	ttc	caa	gtc	cct	act	ttt	acc	att	4154	
Gly	Phe	His	Leu	Pro	Ser	Arg	Glu	Phe	Gln	Val	Pro	Thr	Phe	Thr	Ile		
			1330					1335					1340				
ccc	aag	ttg	tat	caa	ctg	caa	gtg	cct	ctc	ctg	ggt	gtt	cta	gac	ctc	4202	
Pro	Lys	Leu	Tyr	Gln	Leu	Gln	Val	Pro	Leu	Leu	Gly	Val	Leu	Asp	Leu		

## DOC0216USSEQ2.txt

1345	1350	1355	
tcc acg aat gtc tac agc aac ttg tac aac tgg tcc gcc tcc tac agt Ser Thr Asn Val Tyr Ser Asn Leu Tyr Asn Trp Ser Ala Ser Tyr Ser 1360 1365 1370			4250
ggt ggc aac acc agc aca gac cat ttc agc ctt cgg gct cgt tac cac Gly Gly Asn Thr Ser Thr Asp His Phe Ser Leu Arg Ala Arg Tyr His 1375 1380 1385 1390			4298
atg aag gct gac tct gtg gtt gac ctg ctt tcc tac aat gtg caa gga Met Lys Ala Asp Ser Val Val Asp Leu Leu Ser Tyr Asn Val Gln Gly 1395 1400 1405			4346
tct gga gaa aca aca tat gac cac aag aat acg ttc aca cta tca tgt Ser Gly Glu Thr Thr Tyr Asp His Lys Asn Thr Phe Thr Leu Ser Cys 1410 1415 1420			4394
gat ggg tct cta cgc cac aaa ttt cta gat tcg aat atc aaa ttc agt Asp Gly Ser Leu Arg His Lys Phe Leu Asp Ser Asn Ile Lys Phe Ser 1425 1430 1435			4442
cat gta gaa aaa ctt gga aac aac cca gtc tca aaa ggt tta cta ata His Val Glu Lys Leu Gly Asn Asn Pro Val Ser Lys Gly Leu Leu Ile 1440 1445 1450			4490
ttc gat gca tct agt tcc tgg gga cca cag atg tct gct tca gtt cat Phe Asp Ala Ser Ser Ser Trp Gly Pro Gln Met Ser Ala Ser Val His 1455 1460 1465 1470			4538
ttg gac tcc aaa aag aaa cag cat ttg ttt gtc aaa gaa gtc aag att Leu Asp Ser Lys Lys Lys Gln His Leu Phe Val Lys Glu Val Lys Ile 1475 1480 1485			4586
gat ggg cag ttc aga gtc tct tcg ttc tat gct aaa ggc aca tat ggc Asp Gly Gln Phe Arg Val Ser Ser Phe Tyr Ala Lys Gly Thr Tyr Gly 1490 1495 1500			4634
ctg tct tgt cag agg gat cct aac act ggc cgg ctc aat gga gag tcc Leu Ser Cys Gln Arg Asp Pro Asn Thr Gly Arg Leu Asn Gly Glu Ser 1505 1510 1515			4682
aac ctg agg ttt aac tcc tcc tac ctc caa ggc acc aac cag ata aca Asn Leu Arg Phe Asn Ser Ser Tyr Leu Gln Gly Thr Asn Gln Ile Thr 1520 1525 1530			4730
gga aga tat gaa gat gga acc ctc tcc ctc acc tcc acc tct gat ctg Gly Arg Tyr Glu Asp Gly Thr Leu Ser Leu Thr Ser Thr Ser Asp Leu 1535 1540 1545 1550			4778
caa agt ggc atc att aaa aat act gct tcc cta aag tat gag aac tac Gln Ser Gly Ile Ile Lys Asn Thr Ala Ser Leu Lys Tyr Glu Asn Tyr 1555 1560 1565			4826
gag ctg act tta aaa tct gac acc aat ggg aag tat aag aac ttt gcc Glu Leu Thr Leu Lys Ser Asp Thr Asn Gly Lys Tyr Lys Asn Phe Ala 1570 1575 1580			4874
act tct aac aag atg gat atg acc ttc tct aag caa aat gca ctg ctg Thr Ser Asn Lys Met Asp Met Thr Phe Ser Lys Gln Asn Ala Leu Leu 1585 1590 1595			4922
cgt tct gaa tat cag gct gat tac gag tca ttg agg ttc ttc agc ctg Arg Ser Glu Tyr Gln Ala Asp Tyr Glu Ser Leu Arg Phe Phe Ser Leu 1600 1605 1610			4970

## DOC0216USSEQ2.txt

ctt tct gga tca cta aat tcc cat ggt ctt gag tta aat gct gac atc Leu Ser Gly Ser Leu Asn Ser His Gly Leu Glu Leu Asn Ala Asp Ile 1615 1620 1625 1630	5018
tta ggc act gac aaa att aat agt ggt gct cac aag gcg aca cta agg Leu Gly Thr Asp Lys Ile Asn Ser Gly Ala His Lys Ala Thr Leu Arg 1635 1640 1645	5066
att ggc caa gat gga ata tct acc agt gca acg acc aac ttg aag tgt Ile Gly Gln Asp Gly Ile Ser Thr Ser Ala Thr Thr Asn Leu Lys Cys 1650 1655 1660	5114
agt ctc ctg gtg ctg gag aat gag ctg aat gca gag ctt ggc ctc tct Ser Leu Leu Val Leu Glu Asn Glu Leu Asn Ala Glu Leu Gly Leu Ser 1665 1670 1675	5162
ggg gca tct atg aaa tta aca aca aat ggc cgc ttc agg gaa cac aat Gly Ala Ser Met Lys Leu Thr Asn Gly Arg Phe Arg Glu His Asn 1680 1685 1690	5210
gca aaa ttc agt ctg gat ggg aaa gcc gcc ctc aca gag cta tca ctg Ala Lys Phe Ser Leu Asp Gly Lys Ala Ala Leu Thr Glu Leu Ser Leu 1695 1700 1705 1710	5258
gga agt gct tat cag gcc atg att ctg ggt gtc gac agc aaa aac att Gly Ser Ala Tyr Gln Ala Met Ile Leu Gly Val Asp Ser Lys Asn Ile 1715 1720 1725	5306
ttc aac ttc aag gtc agt caa gaa gga ctt aag ctc tca aat gac atg Phe Asn Phe Lys Val Ser Gln Glu Gly Leu Lys Leu Ser Asn Asp Met 1730 1735 1740	5354
atg ggc tca tat gct gaa atg aaa ttt gac cac aca aac agt ctg aac Met Gly Ser Tyr Ala Glu Met Lys Phe Asp His Thr Asn Ser Leu Asn 1745 1750 1755	5402
att gca ggc tta tca ctg gac ttc tct tca aaa ctt gac aac att tac Ile Ala Gly Leu Ser Leu Asp Phe Ser Ser Lys Leu Asp Asn Ile Tyr 1760 1765 1770	5450
agc tct gac aag ttt tat aag caa act gtt aat tta cag cta cag ccc Ser Ser Asp Lys Phe Tyr Lys Gln Thr Val Asn Leu Gln Leu Gln Pro 1775 1780 1785 1790	5498
tat tct ctg gta act act tta aac agt gac ctg aaa tac aat gct ctg Tyr Ser Leu Val Thr Thr Leu Asn Ser Asp Leu Lys Tyr Asn Ala Leu 1795 1800 1805	5546
gat ctc acc aac aat ggg aaa cta cgg cta gaa ccc ctg aag ctg cat Asp Leu Thr Asn Asn Gly Lys Leu Arg Leu Glu Pro Leu Lys Leu His 1810 1815 1820	5594
gtg gct ggt aac cta aaa gga gcc tac caa aat aat gaa ata aaa cac Val Ala Gly Asn Leu Lys Gly Ala Tyr Gln Asn Asn Glu Ile Lys His 1825 1830 1835	5642
atc tat gcc atc tct tct gct gcc tta tca gca agc tat aaa gca gac Ile Tyr Ala Ile Ser Ser Ala Ala Leu Ser Ala Ser Tyr Lys Ala Asp 1840 1845 1850	5690
act gtt gct aag gtt cag ggt gtg gag ttt agc cat cgg ctc aac aca Thr Val Ala Lys Val Gln Gly Val Glu Phe Ser His Arg Leu Asn Thr 1855 1860 1865 1870	5738
gac atc gct ggg ctg gct tca gcc att gac atg agc aca aac tat aat	5786



DOC0216USSEQ2.txt

Asp	Ile	Ala	Gly	Leu	Ala	Ser	Ala	Ile	Asp	Met	Ser	Thr	Asn	Tyr	Asn	
				1875					1880					1885		
tca	gac	tca	ctg	cat	ttc	agc	aat	gtc	ttc	cgt	tct	gta	atg	gcc	ccg	5834
Ser	Asp	Ser	Leu	His	Phe	Ser	Asn	Val	Phe	Arg	Ser	Val	Met	Ala	Pro	
			1890					1895					1900			
ttt	acc	atg	acc	atc	gat	gca	cat	aca	aat	ggc	aat	ggg	aaa	ctc	gct	5882
Phe	Thr	Met	Thr	Ile	Asp	Ala	His	Thr	Asn	Gly	Asn	Gly	Lys	Leu	Ala	
		1905					1910					1915				
ctc	tgg	gga	gaa	cat	act	ggg	cag	ctg	tat	agc	aaa	ttc	ctg	ttg	aaa	5930
Leu	Trp	Gly	Glu	His	Thr	Gly	Gln	Leu	Tyr	Ser	Lys	Phe	Leu	Leu	Lys	
	1920					1925					1930					
gca	gaa	cct	ctg	gca	ttt	act	ttc	tct	cat	gat	tac	aaa	ggc	tcc	aca	5978
Ala	Glu	Pro	Leu	Ala	Phe	Thr	Phe	Ser	His	Asp	Tyr	Lys	Gly	Ser	Thr	
1935					1940					1945					1950	
agt	cat	cat	ctc	gtg	tct	agg	aaa	agc	atc	agt	gca	gct	ctt	gaa	cac	6026
Ser	His	His	Leu	Val	Ser	Arg	Lys	Ser	Ile	Ser	Ala	Ala	Leu	Glu	His	
				1955					1960					1965		
aaa	gtc	agt	gcc	ctg	ctt	act	cca	gct	gag	cag	aca	ggc	acc	tgg	aaa	6074
Lys	Val	Ser	Ala	Leu	Leu	Thr	Pro	Ala	Glu	Gln	Thr	Gly	Thr	Trp	Lys	
			1970					1975					1980			
ctc	aag	acc	caa	ttt	aac	aac	aat	gaa	tac	agc	cag	gac	ttg	gat	gct	6122
Leu	Lys	Thr	Gln	Phe	Asn	Asn	Asn	Glu	Tyr	Ser	Gln	Asp	Leu	Asp	Ala	
		1985					1990					1995				
tac	aac	act	aaa	gat	aaa	att	ggc	gtg	gag	ctt	act	gga	cga	act	ctg	6170
Tyr	Asn	Thr	Lys	Asp	Lys	Ile	Gly	Val	Glu	Leu	Thr	Gly	Arg	Thr	Leu	
	2000					2005					2010					
gct	gac	cta	act	cta	cta	gac	tcc	cca	att	aaa	gtg	cca	ctt	tta	ctc	6218
Ala	Asp	Leu	Thr	Leu	Leu	Asp	Ser	Pro	Ile	Lys	Val	Pro	Leu	Leu	Leu	
2015				2020						2025					2030	
agt	gag	ccc	atc	aat	atc	att	gat	gct	tta	gag	atg	aga	gat	gcc	ggt	6266
Ser	Glu	Pro	Ile	Asn	Ile	Ile	Asp	Ala	Leu	Glu	Met	Arg	Asp	Ala	Val	
			2035					2040						2045		
gag	aag	ccc	caa	gaa	ttt	aca	att	gtt	gct	ttt	gta	aag	tat	gat	aaa	6314
Glu	Lys	Pro	Gln	Glu	Phe	Thr	Ile	Val	Ala	Phe	Val	Lys	Tyr	Asp	Lys	
		2050						2055					2060			
aac	caa	gat	gtt	cac	tcc	att	aac	ctc	cca	ttt	ttt	gag	acc	ttg	caa	6362
Asn	Gln	Asp	Val	His	Ser	Ile	Asn	Leu	Pro	Phe	Phe	Glu	Thr	Leu	Gln	
		2065				2070						2075				
gaa	tat	ttt	gag	agg	aat	cga	caa	acc	att	ata	gtt	gta	gtg	gaa	aac	6410
Glu	Tyr	Phe	Glu	Arg	Asn	Arg	Gln	Thr	Ile	Ile	Val	Val	Val	Glu	Asn	
	2080				2085						2090					
gta	cag	aga	aac	ctg	aag	cac	atc	aat	att	gat	caa	ttt	gta	aga	aaa	6458
Val	Gln	Arg	Asn	Leu	Lys	His	Ile	Asn	Ile	Asp	Gln	Phe	Val	Arg	Lys	
2095				2100						2105					2110	
tac	aga	gca	gcc	ctg	gga	aaa	ctc	cca	cag	caa	gct	aat	gat	tat	ctg	6506
Tyr	Arg	Ala	Ala	Leu	Gly	Lys	Leu	Pro	Gln	Gln	Ala	Asn	Asp	Tyr	Leu	
			2115					2120					2125			
aat	tca	ttc	aat	tgg	gag	aga	caa	gtt	tca	cat	gcc	aag	gag	aaa	ctg	6554
Asn	Ser	Phe	Asn	Trp	Glu	Arg	Gln	Val	Ser	His	Ala	Lys	Glu	Lys	Leu	
			2130					2135					2140			

## DOC0216USSEQ2.txt

act gct ctc aca aaa aag tat aga att aca gaa aat gat ata caa att	6602
Thr Ala Leu Thr Lys Lys Tyr Arg Ile Thr Glu Asn Asp Ile Gln Ile	
2145 2150 2155	
gca tta gat gat gcc aaa atc aac ttt aat gaa aaa cta tct caa ctg	6650
Ala Leu Asp Asp Ala Lys Ile Asn Phe Asn Glu Lys Leu Ser Gln Leu	
2160 2165 2170	
cag aca tat atg ata caa ttt gat cag tat att aaa gat agt tat gat	6698
Gln Thr Tyr Met Ile Gln Phe Asp Gln Tyr Ile Lys Asp Ser Tyr Asp	
2175 2180 2185 2190	
tta cat gat ttg aaa ata gct att gct aat att att gat gaa atc att	6746
Leu His Asp Leu Lys Ile Ala Ile Ala Asn Ile Ile Asp Glu Ile Ile	
2195 2200 2205	
gaa aaa tta aaa agt ctt gat gag cac tat cat atc cgt gta aat tta	6794
Glu Lys Leu Lys Ser Leu Asp Glu His Tyr His Ile Arg Val Asn Leu	
2210 2215 2220	
gta aaa aca atc cat gat cta cat ttg ttt att gaa aat att gat ttt	6842
Val Lys Thr Ile His Asp Leu His Leu Phe Ile Glu Asn Ile Asp Phe	
2225 2230 2235	
aac aaa agt gga agt agt act gca tcc tgg att caa aat gtg gat act	6890
Asn Lys Ser Gly Ser Ser Thr Ala Ser Trp Ile Gln Asn Val Asp Thr	
2240 2245 2250	
aag tac caa atc aga atc cag ata caa gaa aaa ctg cag cag ctt aag	6938
Lys Tyr Gln Ile Arg Ile Gln Ile Gln Glu Lys Leu Gln Gln Leu Lys	
2255 2260 2265 2270	
aga cac ata cag aat ata gac atc cag cac cta gct gga aag tta aaa	6986
Arg His Ile Gln Asn Ile Asp Ile Gln His Leu Ala Gly Lys Leu Lys	
2275 2280 2285	
caa cac att gag gct att gat gtt aga gtg ctt tta gat caa ttg gga	7034
Gln His Ile Glu Ala Ile Asp Val Arg Val Leu Leu Asp Gln Leu Gly	
2290 2295 2300	
act aca att tca ttt gaa aga ata aat gat gtt ctt gag cat gtc aaa	7082
Thr Thr Ile Ser Phe Glu Arg Ile Asn Asp Val Leu Glu His Val Lys	
2305 2310 2315	
cac ttt gtt ata aat ctt att ggg gat ttt gaa gta gct gag aaa atc	7130
His Phe Val Ile Asn Leu Ile Gly Asp Phe Glu Val Ala Glu Lys Ile	
2320 2325 2330	
aat gcc ttc aga gcc aaa gtc cat gag tta atc gag agg tat gaa gta	7178
Asn Ala Phe Arg Ala Lys Val His Glu Leu Ile Glu Arg Tyr Glu Val	
2335 2340 2345 2350	
gac caa caa atc cag gtt tta atg gat aaa tta gta gag ttg acc cac	7226
Asp Gln Gln Ile Gln Val Leu Met Asp Lys Leu Val Glu Leu Thr His	
2355 2360 2365	
caa tac aag ttg aag gag act att cag aag cta agc aat gtc cta caa	7274
Gln Tyr Lys Leu Lys Glu Thr Ile Gln Lys Leu Ser Asn Val Leu Gln	
2370 2375 2380	
caa gtt aag ata aaa gat tac ttt gag aaa ttg gtt gga ttt att gat	7322
Gln Val Lys Ile Lys Asp Tyr Phe Glu Lys Leu Val Gly Phe Ile Asp	
2385 2390 2395	
gat gct gtg aag aag ctt aat gaa tta tct ttt aaa aca ttc att gaa	7370

DOC0216USSEQ2.txt

Asp	Ala	Val	Lys	Lys	Leu	Asn	Glu	Leu	Ser	Phe	Lys	Thr	Phe	Ile	Glu	
2400						2405					2410					
gat	gtt	aac	aaa	ttc	ctt	gac	atg	ttg	ata	aag	aaa	tta	aag	tca	ttt	7418
Asp	Val	Asn	Lys	Phe	Leu	Asp	Met	Leu	Ile	Lys	Lys	Leu	Lys	Ser	Phe	
2415					2420					2425					2430	
gat	tac	cac	cag	ttt	gta	gat	gaa	acc	aat	gac	aaa	atc	cgt	gag	gtg	7466
Asp	Tyr	His	Gln	Phe	Val	Asp	Glu	Thr	Asn	Asp	Lys	Ile	Arg	Glu	Val	
				2435					2440					2445		
act	cag	aga	ctc	aat	ggg	gaa	att	cag	gct	ctg	gaa	cta	cca	caa	aaa	7514
Thr	Gln	Arg	Leu	Asn	Gly	Glu	Ile	Gln	Ala	Leu	Glu	Leu	Pro	Gln	Lys	
			2450					2455					2460			
gct	gaa	gca	tta	aaa	ctg	ttt	tta	gag	gaa	acc	aag	gcc	aca	ggt	gca	7562
Ala	Glu	Ala	Leu	Lys	Leu	Phe	Leu	Glu	Glu	Thr	Lys	Ala	Thr	Val	Ala	
		2465					2470					2475				
gtg	tat	ctg	gaa	agc	cta	cag	gac	acc	aaa	ata	acc	tta	atc	atc	aat	7610
Val	Tyr	Leu	Glu	Ser	Leu	Gln	Asp	Thr	Lys	Ile	Thr	Leu	Ile	Ile	Asn	
	2480					2485					2490					
tgg	tta	cag	gag	gct	tta	agt	tca	gca	tct	ttg	gct	cac	atg	aag	gcc	7658
Trp	Leu	Gln	Glu	Ala	Leu	Ser	Ser	Ala	Ser	Leu	Ala	His	Met	Lys	Ala	
2495					2500					2505					2510	
aaa	ttc	cga	gag	act	cta	gaa	gat	aca	cga	gac	cga	atg	tat	caa	atg	7706
Lys	Phe	Arg	Glu	Thr	Leu	Glu	Asp	Thr	Arg	Asp	Arg	Met	Tyr	Gln	Met	
				2515					2520					2525		
gac	att	cag	cag	gaa	ctt	caa	cga	tac	ctg	tct	ctg	gta	ggc	cag	gtt	7754
Asp	Ile	Gln	Gln	Glu	Leu	Gln	Arg	Tyr	Leu	Ser	Leu	Val	Gly	Gln	Val	
			2530					2535					2540			
tat	agc	aca	ctt	gtc	acc	tac	att	tct	gat	tgg	tgg	act	ctt	gct	gct	7802
Tyr	Ser	Thr	Leu	Val	Thr	Tyr	Ile	Ser	Asp	Trp	Trp	Thr	Leu	Ala	Ala	
		2545					2550					2555				
aag	aac	ctt	act	gac	ttt	gca	gag	caa	tat	tct	atc	caa	gat	tgg	gct	7850
Lys	Asn	Leu	Thr	Asp	Phe	Ala	Glu	Gln	Tyr	Ser	Ile	Gln	Asp	Trp	Ala	
	2560				2565						2570					
aaa	cgt	atg	aaa	gca	ttg	gta	gag	caa	ggg	ttc	act	gtt	cct	gaa	atc	7898
Lys	Arg	Met	Lys	Ala	Leu	Val	Glu	Gln	Gly	Phe	Thr	Val	Pro	Glu	Ile	
2575					2580				2585						2590	
aag	acc	atc	ctt	ggg	acc	atg	cct	gcc	ttt	gaa	gtc	agt	ctt	cag	gct	7946
Lys	Thr	Ile	Leu	Gly	Thr	Met	Pro	Ala	Phe	Glu	Val	Ser	Leu	Gln	Ala	
				2595				2600						2605		
ctt	cag	aaa	gct	acc	ttc	cag	aca	cct	gat	ttt	ata	gtc	ccc	cta	aca	7994
Leu	Gln	Lys	Ala	Thr	Phe	Gln	Thr	Pro	Asp	Phe	Ile	Val	Pro	Leu	Thr	
			2610					2615					2620			
gat	ttg	agg	att	cca	tca	gtt	cag	ata	aac	ttc	aaa	gac	tta	aaa	aat	8042
Asp	Leu	Arg	Ile	Pro	Ser	Val	Gln	Ile	Asn	Phe	Lys	Asp	Leu	Lys	Asn	
		2625					2630					2635				
ata	aaa	atc	cca	tcc	agg	ttt	tcc	aca	cca	gaa	ttt	acc	atc	ctt	aac	8090
Ile	Lys	Ile	Pro	Ser	Arg	Phe	Ser	Thr	Pro	Glu	Phe	Thr	Ile	Leu	Asn	
	2640					2645					2650					
acc	ttc	cac	att	cct	tcc	ttt	aca	att	gac	ttt	gtc	gaa	atg	aaa	gta	8138
Thr	Phe	His	Ile	Pro	Ser	Phe	Thr	Ile	Asp	Phe	Val	Glu	Met	Lys	Val	
2655					2660					2665					2670	

DOC0216USSEQ2.txt

aag atc atc aga acc att gac cag atg cag aac agt gag ctg cag tgg	8186
Lys Ile Ile Arg Thr Ile Asp Gln Met Gln Asn Ser Glu Leu Gln Trp	
2675 2680 2685	
ccc gtt cca gat ata tat ctc agg gat ctg aag gtg gag gac att cct	8234
Pro Val Pro Asp Ile Tyr Leu Arg Asp Leu Lys Val Glu Asp Ile Pro	
2690 2695 2700	
cta gcg aga atc acc ctg cca gac ttc cgt tta cca gaa atc gca att	8282
Leu Ala Arg Ile Thr Leu Pro Asp Phe Arg Leu Pro Glu Ile Ala Ile	
2705 2710 2715	
cca gaa ttc ata atc cca act ctc aac ctt aat gat ttt caa gtt cct	8330
Pro Glu Phe Ile Ile Pro Thr Leu Asn Leu Asn Asp Phe Gln Val Pro	
2720 2725 2730	
gac ctt cac ata cca gaa ttc cag ctt ccc cac atc tca cac aca att	8378
Asp Leu His Ile Pro Glu Phe Gln Leu Pro His Ile Ser His Thr Ile	
2735 2740 2745 2750	
gaa gta cct act ttt ggc aag cta tac agt att ctg aaa atc caa tct	8426
Glu Val Pro Thr Phe Gly Lys Leu Tyr Ser Ile Leu Lys Ile Gln Ser	
2755 2760 2765	
cct ctt ttc aca tta gat gca aat gct gac ata ggg aat gga acc acc	8474
Pro Leu Phe Thr Leu Asp Ala Asn Ala Asp Ile Gly Asn Gly Thr Thr	
2770 2775 2780	
tca gca aac gaa gca ggt atc gca gct tcc atc act gcc aaa gga gag	8522
Ser Ala Asn Glu Ala Gly Ile Ala Ala Ser Ile Thr Ala Lys Gly Glu	
2785 2790 2795	
tcc aaa tta gaa gtt ctc aat ttt gat ttt caa gca aat gca caa ctc	8570
Ser Lys Leu Glu Val Leu Asn Phe Asp Phe Gln Ala Asn Ala Gln Leu	
2800 2805 2810	
tca aac cct aag att aat ccg ctg gct ctg aag gag tca gtg aag ttc	8618
Ser Asn Pro Lys Ile Asn Pro Leu Ala Leu Lys Glu Ser Val Lys Phe	
2815 2820 2825 2830	
tcc agc aag tac ctg aga acg gag cat ggg agt gaa atg ctg ttt ttt	8666
Ser Ser Lys Tyr Leu Arg Thr Glu His Gly Ser Glu Met Leu Phe Phe	
2835 2840 2845	
gga aat gct att gag gga aaa tca aac aca gtg gca agt tta cac aca	8714
Gly Asn Ala Ile Glu Gly Lys Ser Asn Thr Val Ala Ser Leu His Thr	
2850 2855 2860	
gaa aaa aat aca ctg gag ctt agt aat gga gtg att gtc aag ata aac	8762
Glu Lys Asn Thr Leu Glu Leu Ser Asn Gly Val Ile Val Lys Ile Asn	
2865 2870 2875	
aat cag ctt acc ctg gat agc aac act aaa tac ttc cac aaa ttg aac	8810
Asn Gln Leu Thr Leu Asp Ser Asn Thr Lys Tyr Phe His Lys Leu Asn	
2880 2885 2890	
atc ccc aaa ctg gac ttc tct agt cag gct gac ctg cgc aac gag atc	8858
Ile Pro Lys Leu Asp Phe Ser Ser Gln Ala Asp Leu Arg Asn Glu Ile	
2895 2900 2905 2910	
aag aca ctg ttg aaa gct ggc cac ata gca tgg act tct tct gga aaa	8906
Lys Thr Leu Leu Lys Ala Gly His Ile Ala Trp Thr Ser Ser Gly Lys	
2915 2920 2925	
ggg tca tgg aaa tgg gcc tgc ccc aga ttc tca gat gag gga aca cat	8954

DOC0216USSEQ2.txt

Gly	Ser	Trp	Lys	Trp	Ala	Cys	Pro	Arg	Phe	Ser	Asp	Glu	Gly	Thr	His	
			2930					2935					2940			
gaa	tca	caa	att	agt	ttc	acc	ata	gaa	gga	ccc	ctc	act	tcc	ttt	gga	9002
Glu	Ser	Gln	Ile	Ser	Phe	Thr	Ile	Glu	Gly	Pro	Leu	Thr	Ser	Phe	Gly	
		2945					2950					2955				
ctg	tcc	aat	aag	atc	aat	agc	aaa	cac	cta	aga	gta	aac	caa	aac	ttg	9050
Leu	Ser	Asn	Lys	Ile	Asn	Ser	Lys	His	Leu	Arg	Val	Asn	Gln	Asn	Leu	
		2960				2965					2970					
gtt	tat	gaa	tct	ggc	tcc	ctc	aac	ttt	tct	aaa	ctt	gaa	att	caa	tca	9098
Val	Tyr	Glu	Ser	Gly	Ser	Leu	Asn	Phe	Ser	Lys	Leu	Glu	Ile	Gln	Ser	
2975					2980					2985					2990	
caa	gtc	gat	tcc	cag	cat	gtg	ggc	cac	agt	gtt	cta	act	gct	aaa	ggc	9146
Gln	Val	Asp	Ser	Gln	His	Val	Gly	His	Ser	Val	Leu	Thr	Ala	Lys	Gly	
				2995					3000					3005		
atg	gca	ctg	ttt	gga	gaa	ggg	aag	gca	gag	ttt	act	ggg	agg	cat	gat	9194
Met	Ala	Leu	Phe	Gly	Glu	Gly	Lys	Ala	Glu	Phe	Thr	Gly	Arg	His	Asp	
			3010					3015					3020			
gct	cat	tta	aat	gga	aag	gtt	att	gga	act	ttg	aaa	aat	tct	ctt	ttc	9242
Ala	His	Leu	Asn	Gly	Lys	Val	Ile	Gly	Thr	Leu	Lys	Asn	Ser	Leu	Phe	
		3025					3030					3035				
ttt	tca	gcc	cag	cca	ttt	gag	atc	acg	gca	tcc	aca	aac	aat	gaa	ggg	9290
Phe	Ser	Ala	Gln	Pro	Phe	Glu	Ile	Thr	Ala	Ser	Thr	Asn	Asn	Glu	Gly	
	3040					3045					3050					
aat	ttg	aaa	gtt	cgt	ttt	cca	tta	agg	tta	aca	ggg	aag	ata	gac	ttc	9338
Asn	Leu	Lys	Val	Arg	Phe	Pro	Leu	Arg	Leu	Thr	Gly	Lys	Ile	Asp	Phe	
3055					3060					3065					3070	
ctg	aat	aac	tat	gca	ctg	ttt	ctg	agt	ccc	agt	gcc	cag	caa	gca	agt	9386
Leu	Asn	Asn	Tyr	Ala	Leu	Phe	Leu	Ser	Pro	Ser	Ala	Gln	Gln	Ala	Ser	
				3075					3080					3085		
tgg	caa	gta	agt	gct	agg	ttc	aat	cag	tat	aag	tac	aac	caa	aat	ttc	9434
Trp	Gln	Val	Ser	Ala	Arg	Phe	Asn	Gln	Tyr	Lys	Tyr	Asn	Gln	Asn	Phe	
			3090					3095					3100			
tct	gct	gga	aac	aac	gag	aac	att	atg	gag	gcc	cat	gta	gga	ata	aat	9482
Ser	Ala	Gly	Asn	Asn	Glu	Asn	Ile	Met	Glu	Ala	His	Val	Gly	Ile	Asn	
		3105					3110					3115				
gga	gaa	gca	aat	ctg	gat	ttc	tta	aac	att	cct	tta	aca	att	cct	gaa	9530
Gly	Glu	Ala	Asn	Leu	Asp	Phe	Leu	Asn	Ile	Pro	Leu	Thr	Ile	Pro	Glu	
	3120					3125					3130					
atg	cgt	cta	cct	tac	aca	ata	atc	aca	act	cct	cca	ctg	aaa	gat	ttc	9578
Met	Arg	Leu	Pro	Tyr	Thr	Ile	Ile	Thr	Thr	Pro	Pro	Leu	Lys	Asp	Phe	
3135					3140					3145					3150	
tct	cta	tgg	gaa	aaa	aca	ggc	ttg	aag	gaa	ttc	ttg	aaa	acg	aca	aag	9626
Ser	Leu	Trp	Glu	Lys	Thr	Gly	Leu	Lys	Glu	Phe	Leu	Lys	Thr	Thr	Lys	
				3155					3160					3165		
caa	tca	ttt	gat	tta	agt	gta	aaa	gct	cag	tat	aag	aaa	aac	aaa	cac	9674
Gln	Ser	Phe	Asp	Leu	Ser	Val	Lys	Ala	Gln	Tyr	Lys	Lys	Asn	Lys	His	
			3170					3175					3180			
agg	cat	tcc	atc	aca	aat	cct	ttg	gct	gtg	ctt	tgt	gag	ttt	atc	agt	9722
Arg	His	Ser	Ile	Thr	Asn	Pro	Leu	Ala	Val	Leu	Cys	Glu	Phe	Ile	Ser	
		3185					3190					3195				

## DOC0216USSEQ2.txt

cag Gln 3200	agc Ser 3200	atc Ile 3200	aaa Lys 3200	tcc Ser 3200	ttt Phe 3205	gac Asp 3205	agg Arg 3205	cat His 3205	ttt Phe 3210	gaa Glu 3210	aaa Lys 3210	aac Asn 3210	aga Arg 3210	aac Asn 3210	aat Asn 3210	9770
gca Ala 3215	tta Leu 3215	gat Asp 3215	ttt Phe 3215	gtc Val 3220	acc Thr 3220	aaa Lys 3220	tcc Ser 3220	tat Tyr 3220	aat Asn 3225	gaa Glu 3225	aca Thr 3225	aaa Lys 3225	att Ile 3225	aag Lys 3230	ttt Phe 3230	9818
gat Asp 3235	aag Lys 3235	tac Tyr 3235	aaa Lys 3235	gct Ala 3235	gaa Glu 3235	aaa Lys 3235	tct Ser 3235	cac His 3240	gac Asp 3240	gag Glu 3240	ctc Leu 3240	ccc Pro 3245	agg Arg 3245	acc Thr 3245	ttt Phe 3245	9866
caa Gln 3250	att Ile 3250	cct Pro 3250	gga Gly 3250	tac Tyr 3250	act Thr 3250	gtt Val 3255	cca Pro 3255	gtt Val 3255	gtc Val 3255	aat Asn 3255	gtt Val 3260	gaa Glu 3260	gtg Val 3260	tct Ser 3260	cca Pro 3260	9914
ttc Phe 3265	acc Thr 3265	ata Ile 3265	gag Glu 3265	atg Met 3265	tcg Ser 3270	gca Ala 3270	ttc Phe 3270	ggc Gly 3270	tat Tyr 3275	gtg Val 3275	ttc Phe 3275	cca Pro 3275	aaa Lys 3275	gca Ala 3275	gtc Val 3275	9962
agc Ser 3280	atg Met 3280	cct Pro 3280	agt Ser 3285	ttc Phe 3285	tcc Ser 3285	atc Ile 3285	cta Leu 3285	ggt Gly 3285	tct Ser 3290	gac Asp 3290	gtc Val 3290	cgt Arg 3290	gtg Val 3290	cct Pro 3290	tca Ser 3290	10010
tac Tyr 3295	aca Thr 3295	tta Leu 3300	atc Ile 3300	ctg Leu 3300	cca Pro 3300	tca Ser 3300	tta Leu 3305	gag Glu 3305	ctg Leu 3305	cca Pro 3305	gtc Val 3305	ctt Leu 3310	cat His 3310	gtc Val 3310	cct Pro 3310	10058
aga Arg 3315	aat Asn 3315	ctc Leu 3315	aag Lys 3315	ctt Leu 3315	tct Ser 3315	ctt Leu 3315	cca Pro 3320	cat His 3320	ttc Phe 3320	aag Lys 3320	gaa Glu 3320	ttg Leu 3325	tgt Cys 3325	acc Thr 3325	ata Ile 3325	10106
agc Ser 3330	cat His 3330	att Ile 3330	ttt Phe 3330	att Ile 3330	cct Pro 3330	gcc Ala 3335	atg Met 3335	ggc Gly 3335	aat Asn 3335	att Ile 3335	acc Thr 3340	tat Tyr 3340	gat Asp 3340	ttc Phe 3340	tcc Ser 3340	10154
ttt Phe 3345	aaa Lys 3345	tca Ser 3345	agt Ser 3345	gtc Val 3350	atc Ile 3350	aca Thr 3350	ctg Leu 3350	aat Asn 3355	acc Thr 3355	aat Asn 3355	gct Ala 3355	gaa Glu 3355	ctt Leu 3355	ttt Phe 3355	aac Asn 3355	10202
cag Gln 3360	tca Ser 3360	gat Asp 3365	att Ile 3365	gtt Val 3365	gct Ala 3365	cat His 3365	ctc Leu 3365	ctt Leu 3370	tct Ser 3370	tca Ser 3370	tct Ser 3370	tca Ser 3370	tct Ser 3370	gtc Val 3370	att Ile 3370	10250
gat Asp 3375	gca Ala 3375	ctg Leu 3380	cag Gln 3380	tac Tyr 3380	aaa Lys 3380	tta Leu 3380	gag Glu 3385	ggc Gly 3385	acc Thr 3385	aca Thr 3385	aga Arg 3385	ttg Leu 3390	aca Thr 3390	aga Arg 3390	aaa Lys 3390	10298
agg Arg 3395	gga Gly 3395	ttg Leu 3395	aag Lys 3395	tta Leu 3395	gcc Ala 3395	aca Thr 3400	gct Ala 3400	ctg Leu 3400	tct Ser 3400	ctg Leu 3400	agc Ser 3405	aac Asn 3405	aaa Lys 3405	ttt Phe 3405	gtg Val 3405	10346
gag Glu 3410	ggt Gly 3410	agt Ser 3410	cat His 3410	aac Asn 3410	agt Ser 3415	act Thr 3415	gtg Val 3415	agc Ser 3415	tta Leu 3415	acc Thr 3415	acg Thr 3420	aaa Lys 3420	aat Asn 3420	atg Met 3420	gaa Glu 3420	10394
gtg Val 3425	tca Ser 3425	gtg Val 3425	gca Ala 3425	aaa Lys 3430	acc Thr 3430	aca Thr 3430	aaa Lys 3430	gcc Ala 3430	gaa Glu 3435	att Ile 3435	cca Pro 3435	att Ile 3435	ttg Leu 3435	aga Arg 3435	atg Met 3435	10442
aat Asn 3440	ttc Phe 3440	aag Lys 3440	caa Gln 3445	gaa Glu 3445	ctt Leu 3445	aat Asn 3445	gga Gly 3445	aat Asn 3450	acc Thr 3450	aag Lys 3450	tca Ser 3450	aaa Lys 3450	cct Pro 3450	act Thr 3450	gtc Val 3450	10490
tct 3450	tcc 3450	tcc 3450	atg 3450	gaa 3450	ttt 3450	aag 3450	tat 3450	gat 3450	ttc 3450	aat 3450	tct 3450	tca 3450	atg 3450	ctg 3450	tac 3450	10538

## DOC0216USSEQ2.txt

Ser 3455	Ser	Ser	Met	Glu	Phe 3460	Lys	Tyr	Asp	Phe 3465	Asn	Ser	Ser	Met	Leu	Tyr 3470	
tct Ser	acc Thr	gct Ala	aaa Lys	gga Gly 3475	gca Ala	gtt Val	gac Asp	cac His	aag Lys 3480	ctt Leu	agc Ser	ttg Leu	gaa Glu	agc Ser 3485	ctc Leu	10586
acc Thr	tct Ser	tac Tyr	ttt Phe 3490	tcc Ser	att Ile	gag Glu	tca Ser	tct Ser 3495	acc Thr	aaa Lys	gga Gly	gat Asp	gtc Val 3500	aag Lys	ggt Gly	10634
tcg Ser	gtt Val	ctt Leu 3505	tct Ser	cgg Arg	gaa Glu	tat Tyr	tca Ser 3510	gga Gly	act Thr	att Ile	gct Ala	agt Ser 3515	gag Glu	gcc Ala	aac Asn	10682
act Thr	tac Tyr 3520	ttg Leu	aat Asn	tcc Ser	aag Lys	agc Ser 3525	aca Thr	cgg Arg	tct Ser	tca Ser	gtg Val 3530	aag Lys	ctg Leu	cag Gln	ggc Gly	10730
act Thr 3535	tcc Ser	aaa Lys	att Ile	gat Asp	gat Asp 3540	atc Ile	tgg Trp	aac Asn	ctt Leu	gaa Glu 3545	gta Val	aaa Lys	gaa Glu	aat Asn	ttt Phe 3550	10778
gct Ala	gga Gly	gaa Glu	gcc Ala	aca Thr 3555	ctc Leu	caa Gln	cgc Arg	ata Ile	tat Tyr 3560	tcc Ser	ctc Leu	tgg Trp	gag Glu	cac His 3565	agt Ser	10826
acg Thr	aaa Lys	aac Asn	cac His 3570	tta Leu	cag Gln	cta Leu	gag Glu	ggc Gly 3575	ctc Leu	ttt Phe	ttc Phe	acc Thr	aac Asn 3580	gga Gly	gaa Glu	10874
cat His	aca Thr	agc Ser 3585	aaa Lys	gcc Ala	acc Thr	ctg Leu	gaa Glu 3590	ctc Leu	tct Ser	cca Pro	tgg Trp	caa Gln 3595	atg Met	tca Ser	gct Ala	10922
ctt Leu 3600	gtt Val	cag Gln	gtc Val	cat His	gca Ala	agt Ser 3605	cag Gln	ccc Pro	agt Ser	tcc Ser	ttc Phe 3610	cat His	gat Asp	ttc Phe	cct Pro	10970
gac Asp 3615	ctt Leu	ggc Gly	cag Gln	gaa Glu	gtg Val 3620	gcc Ala	ctg Leu	aat Asn	gct Ala	aac Asn 3625	act Thr	aag Lys	aac Asn	cag Gln	aag Lys 3630	11018
atc Ile	aga Arg	tgg Trp	aaa Lys	aat Asn 3635	gaa Glu	gtc Val	cgg Arg	att Ile	cat His 3640	tct Ser	ggg Gly	tct Ser	ttc Phe	cag Gln 3645	agc Ser	11066
cag Gln	gtc Val	gag Glu	ctt Leu 3650	tcc Ser	aat Asn	gac Asp	caa Gln	gaa Glu 3655	aag Lys	gca Ala	cac His	ctt Leu	gac Asp 3660	att Ile	gca Ala	11114
gga Gly	tcc Ser	tta Leu 3665	gaa Glu	gga Gly	cac His	cta Leu	agg Arg 3670	ttc Phe	ctc Leu	aaa Lys	aat Asn	atc Ile 3675	atc Ile	cta Leu	cca Pro	11162
gtc Val 3680	tat Tyr	gac Asp	aag Lys	agc Ser	tta Leu	tgg Trp 3685	gat Asp	ttc Phe	cta Leu	aag Lys	ctg Leu 3690	gat Asp	gta Val	acc Thr	acc Thr	11210
agc Ser 3695	att Ile	ggt Gly	agg Arg	aga Arg	cag Gln 3700	cat His	ctt Leu	cgt Arg	gtt Val	tca Ser 3705	act Thr	gcc Ala	ttt Phe	gtg Val 3710	tac Tyr	11258
acc Thr	aaa Lys	aac Asn	ccc Pro	aat Asn	ggc Gly	tat Tyr	tca Ser	ttc Phe	tcc Ser	atc Ile	cct Pro	gta Val	aaa Lys	gtt Val	ttg Leu	11306

## DOC0216USSEQ2.txt

3715										3720				3725				
gct	gat	aaa	ttc	att	act	cct	ggg	ctg	aaa	cta	aat	gat	cta	aat	tca	11354		
Ala	Asp	Lys	Phe	Ile	Thr	Pro	Gly	Leu	Lys	Leu	Asn	Asp	Leu	Asn	Ser			
			3730					3735					3740					
ggt	ctt	gtc	atg	cct	acg	ttc	cat	gtc	cca	ttt	aca	gat	ctt	cag	gtt	11402		
Val	Leu	Val	Met	Pro	Thr	Phe	His	Val	Pro	Phe	Thr	Asp	Leu	Gln	Val			
		3745					3750					3755						
cca	tcg	tgc	aaa	ctt	gac	ttc	aga	gaa	ata	caa	atc	tat	aag	aag	ctg	11450		
Pro	Ser	Cys	Lys	Leu	Asp	Phe	Arg	Glu	Ile	Gln	Ile	Tyr	Lys	Lys	Leu			
		3760				3765					3770							
aga	act	tca	tca	ttt	gcc	ctc	aac	cta	cca	aca	ctc	ccc	gag	gta	aaa	11498		
Arg	Thr	Ser	Ser	Phe	Ala	Leu	Asn	Leu	Pro	Thr	Leu	Pro	Glu	Val	Lys			
3775					3780				3785						3790			
ttc	cct	gaa	gtt	gat	gtg	tta	aca	aaa	tat	tct	caa	cca	gaa	gac	tcc	11546		
Phe	Pro	Glu	Val	Asp	Val	Leu	Thr	Lys	Tyr	Ser	Gln	Pro	Glu	Asp	Ser			
				3795					3800					3805				
ttg	att	ccc	ttt	ttt	gag	ata	acc	gtg	cct	gaa	tct	cag	tta	act	gtg	11594		
Leu	Ile	Pro	Phe	Phe	Glu	Ile	Thr	Val	Pro	Glu	Ser	Gln	Leu	Thr	Val			
			3810					3815					3820					
tcc	cag	ttc	acg	ctt	cca	aaa	agt	gtt	tca	gat	ggc	att	gct	gct	ttg	11642		
Ser	Gln	Phe	Thr	Leu	Pro	Lys	Ser	Val	Ser	Asp	Gly	Ile	Ala	Ala	Leu			
		3825					3830					3835						
gat	cta	aat	gca	gta	gcc	aac	aag	atc	gca	gac	ttt	gag	ttg	ccc	acc	11690		
Asp	Leu	Asn	Ala	Val	Ala	Asn	Lys	Ile	Ala	Asp	Phe	Glu	Leu	Pro	Thr			
	3840					3845					3850							
atc	atc	gtg	cct	gag	cag	acc	att	gag	att	ccc	tcc	att	aag	ttc	tct	11738		
Ile	Ile	Val	Pro	Glu	Gln	Thr	Ile	Glu	Ile	Pro	Ser	Ile	Lys	Phe	Ser			
3855				3860						3865					3870			
gta	cct	gct	gga	att	gtc	att	cct	tcc	ttt	caa	gca	ctg	act	gca	cgc	11786		
Val	Pro	Ala	Gly	Ile	Val	Ile	Pro	Ser	Phe	Gln	Ala	Leu	Thr	Ala	Arg			
			3875						3880					3885				
ttt	gag	gta	gac	tct	ccc	gtg	tat	aat	gcc	act	tgg	agt	gcc	agt	ttg	11834		
Phe	Glu	Val	Asp	Ser	Pro	Val	Tyr	Asn	Ala	Thr	Trp	Ser	Ala	Ser	Leu			
			3890					3895					3900					
aaa	aac	aaa	gca	gat	tat	gtt	gaa	aca	gtc	ctg	gat	tcc	aca	tgc	agc	11882		
Lys	Asn	Lys	Ala	Asp	Tyr	Val	Glu	Thr	Val	Leu	Asp	Ser	Thr	Cys	Ser			
		3905					3910					3915						
tca	acc	gta	cag	ttc	cta	gaa	tat	gaa	cta	aat	gtt	ttg	gga	aca	cac	11930		
Ser	Thr	Val	Gln	Phe	Leu	Glu	Tyr	Glu	Leu	Asn	Val	Leu	Gly	Thr	His			
	3920					3925					3930							
aaa	atc	gaa	gat	ggt	acg	tta	gcc	tct	aag	act	aaa	gga	aca	ctt	gca	11978		
Lys	Ile	Glu	Asp	Gly	Thr	Leu	Ala	Ser	Lys	Thr	Lys	Gly	Thr	Leu	Ala			
3935					3940				3945						3950			
cac	cgt	gac	ttc	agt	gca	gaa	tat	gaa	gaa	gat	ggc	aaa	ttt	gaa	gga	12026		
His	Arg	Asp	Phe	Ser	Ala	Glu	Tyr	Glu	Glu	Asp	Gly	Lys	Phe	Glu	Gly			
				3955				3960						3965				
ctt	cag	gaa	tgg	gaa	gga	aaa	gcg	cac	ctc	aat	atc	aaa	agc	cca	gcg	12074		
Leu	Gln	Glu	Trp	Glu	Gly	Lys	Ala	His	Leu	Asn	Ile	Lys	Ser	Pro	Ala			



## DOC0216USSEQ2.txt

3970	3975	3980	
ttc acc gat ctc cat ctg cgc tac cag aaa gac aag aaa ggc atc tcc Phe Thr Asp Leu His Leu Arg Tyr Gln Lys Asp Lys Lys Gly Ile Ser 3985 3990 3995			12122
acc tca gca gcc tcc cca gcc gta ggc acc gtg ggc atg gat atg gat Thr Ser Ala Ala Ser Pro Ala Val Gly Thr Val Gly Met Asp Met Asp 4000 4005 4010			12170
gaa gat gac gac ttt tct aaa tgg aac ttc tac tac agc cct cag tcc Glu Asp Asp Asp Phe Ser Lys Trp Asn Phe Tyr Tyr Ser Pro Gln Ser 4015 4020 4025 4030			12218
tct cca gat aaa aaa ctc acc ata ttc aaa act gag ttg agg gtc cgg Ser Pro Asp Lys Lys Leu Thr Ile Phe Lys Thr Glu Leu Arg Val Arg 4035 4040 4045			12266
gaa tct gat gag gaa act cag atc aaa gtt aat tgg gaa gaa gag gca Glu Ser Asp Glu Glu Thr Gln Ile Lys Val Asn Trp Glu Glu Glu Ala 4050 4055 4060			12314
gct tct ggc ttg cta acc tct ctg aaa gac aac gtg ccc aag gcc aca Ala Ser Gly Leu Leu Thr Ser Leu Lys Asp Asn Val Pro Lys Ala Thr 4065 4070 4075			12362
ggg gtc ctt tat gat tat gtc aac aag tac cac tgg gaa cac aca ggg Gly Val Leu Tyr Asp Tyr Val Asn Lys Tyr His Trp Glu His Thr Gly 4080 4085 4090			12410
ctc acc ctg aga gaa gtg tct tca aag ctg aga aga aat ctg cag aac Leu Thr Leu Arg Glu Val Ser Ser Lys Leu Arg Arg Asn Leu Gln Asn 4095 4100 4105 4110			12458
aat gct gag tgg gtt tat caa ggg gcc att agg caa att gat gat atc Asn Ala Glu Trp Val Tyr Gln Gly Ala Ile Arg Gln Ile Asp Asp Ile 4115 4120 4125			12506
gac gtg agg ttc cag aaa gca gcc agt ggc acc act ggg acc tac caa Asp Val Arg Phe Gln Lys Ala Ala Ser Gly Thr Thr Gly Thr Tyr Gln 4130 4135 4140			12554
gag tgg aag gac aag gcc cag aat ctg tac cag gaa ctg ttg act cag Glu Trp Lys Asp Lys Ala Gln Asn Leu Tyr Gln Glu Leu Leu Thr Gln 4145 4150 4155			12602
gaa ggc caa gcc agt ttc cag gga ctc aag gat aac gtg ttt gat ggc Glu Gly Gln Ala Ser Phe Gln Gly Leu Lys Asp Asn Val Phe Asp Gly 4160 4165 4170			12650
ttg gta cga gtt act caa aaa ttc cat atg aaa gtc aag cat ctg att Leu Val Arg Val Thr Gln Lys Phe His Met Lys Val Lys His Leu Ile 4175 4180 4185 4190			12698
gac tca ctc att gat ttt ctg aac ttc ccc aga ttc cag ttt ccg ggg Asp Ser Leu Ile Asp Phe Leu Asn Phe Pro Arg Phe Gln Phe Pro Gly 4195 4200 4205			12746
aaa cct ggc ata tac act agg gag gaa ctt tgc act atg ttc ata agg Lys Pro Gly Ile Tyr Thr Arg Glu Glu Leu Cys Thr Met Phe Ile Arg 4210 4215 4220			12794
gag gta ggg acg gta ctg tcc cag gta tat tcg aaa gtc cat aat ggt Glu Val Gly Thr Val Leu Ser Gln Val Tyr Ser Lys Val His Asn Gly 4225 4230 4235			12842
tca gaa ata ctg ttt tcc tat ttc caa gac cta gtg att aca ctt cct			12890

## DOC0216USSEQ2.txt

Ser	Glu	Ile	Leu	Phe	Ser	Tyr	Phe	Gln	Asp	Leu	Val	Ile	Thr	Leu	Pro	
4240						4245					4250					
ttc	gag	tta	agg	aaa	cat	aaa	cta	ata	gat	gta	atc	tcg	atg	tat	agg	12938
Phe	Glu	Leu	Arg	Lys	His	Lys	Leu	Ile	Asp	Val	Ile	Ser	Met	Tyr	Arg	
4255					4260					4265					4270	
gaa	ctg	ttg	aaa	gat	tta	tca	aaa	gaa	gcc	caa	gag	gta	ttt	aaa	gcc	12986
Glu	Leu	Leu	Lys	Asp	Leu	Ser	Lys	Glu	Ala	Gln	Glu	Val	Phe	Lys	Ala	
				4275					4280					4285		
att	cag	tct	ctc	aag	acc	aca	gag	gtg	cta	cgt	aat	ctt	cag	gac	ctt	13034
Ile	Gln	Ser	Leu	Lys	Thr	Thr	Glu	Val	Leu	Arg	Asn	Leu	Gln	Asp	Leu	
			4290					4295					4300			
tta	caa	ttc	att	ttc	caa	cta	ata	gaa	gat	aac	att	aaa	cag	ctg	aaa	13082
Leu	Gln	Phe	Ile	Phe	Gln	Leu	Ile	Glu	Asp	Asn	Ile	Lys	Gln	Leu	Lys	
		4305					4310					4315				
gag	atg	aaa	ttt	act	tat	ctt	att	aat	tat	atc	caa	gat	gag	atc	aac	13130
Glu	Met	Lys	Phe	Thr	Tyr	Leu	Ile	Asn	Tyr	Ile	Gln	Asp	Glu	Ile	Asn	
	4320					4325					4330					
aca	atc	ttc	aat	gat	tat	atc	cca	tat	gtt	ttt	aaa	ttg	ttg	aaa	gaa	13178
Thr	Ile	Phe	Asn	Asp	Tyr	Ile	Pro	Tyr	Val	Phe	Lys	Leu	Leu	Lys	Glu	
4335					4340					4345					4350	
aac	cta	tgc	ctt	aat	ctt	cat	aag	ttc	aat	gaa	ttt	att	caa	aac	gag	13226
Asn	Leu	Cys	Leu	Asn	Leu	His	Lys	Phe	Asn	Glu	Phe	Ile	Gln	Asn	Glu	
				4355					4360					4365		
ctt	cag	gaa	gct	tct	caa	gag	tta	cag	cag	atc	cat	caa	tac	att	atg	13274
Leu	Gln	Glu	Ala	Ser	Gln	Glu	Leu	Gln	Gln	Ile	His	Gln	Tyr	Ile	Met	
			4370					4375					4380			
gcc	ctt	cgt	gaa	gaa	tat	ttt	gat	cca	agt	ata	gtt	ggc	tgg	aca	gtg	13322
Ala	Leu	Arg	Glu	Glu	Tyr	Phe	Asp	Pro	Ser	Ile	Val	Gly	Trp	Thr	Val	
		4385					4390					4395				
aaa	tat	tat	gaa	ctt	gaa	gaa	aag	ata	gtc	agt	ctg	atc	aag	aac	ctg	13370
Lys	Tyr	Tyr	Glu	Leu	Glu	Glu	Lys	Ile	Val	Ser	Leu	Ile	Lys	Asn	Leu	
	4400					4405					4410					
tta	gtt	gct	ctt	aag	gac	ttc	cat	tct	gaa	tat	att	gtc	agt	gcc	tct	13418
Leu	Val	Ala	Leu	Lys	Asp	Phe	His	Ser	Glu	Tyr	Ile	Val	Ser	Ala	Ser	
4415					4420					4425					4430	
aac	ttt	act	tcc	caa	ctc	tca	agt	caa	gtt	gag	caa	ttt	ctg	cac	aga	13466
Asn	Phe	Thr	Ser	Gln	Leu	Ser	Ser	Gln	Val	Glu	Gln	Phe	Leu	His	Arg	
				4435					4440					4445		
aat	att	cag	gaa	tat	ctt	agc	atc	ctt	acc	gat	cca	gat	gga	aaa	ggg	13514
Asn	Ile	Gln	Glu	Tyr	Leu	Ser	Ile	Leu	Thr	Asp	Pro	Asp	Gly	Lys	Gly	
			4450					4455					4460			
aaa	gag	aag	att	gca	gag	ctt	tct	gcc	act	gct	cag	gaa	ata	att	aaa	13562
Lys	Glu	Lys	Ile	Ala	Glu	Leu	Ser	Ala	Thr	Ala	Gln	Glu	Ile	Ile	Lys	
		4465					4470					4475				
agc	cag	gcc	att	gca	acg	aag	aaa	ata	att	tct	gat	tac	cac	cag	cag	13610
Ser	Gln	Ala	Ile	Ala	Thr	Lys	Lys	Ile	Ile	Ser	Asp	Tyr	His	Gln	Gln	
	4480					4485					4490					
ttt	aga	tat	aaa	ctg	caa	gat	ttt	tca	gac	caa	ctc	tct	gat	tac	tat	13658
Phe	Arg	Tyr	Lys	Leu	Gln	Asp	Phe	Ser	Asp	Gln	Leu	Ser	Asp	Tyr	Tyr	

4495	4500	4505	4510	
gaa aaa ttt att gct gaa tcc aaa aga ttg att gac ctg tcc att caa				13706
Glu Lys Phe Ile Ala Glu Ser Lys Arg Leu Ile Asp Leu Ser Ile Gln	4515	4520	4525	
aac tac cac aca ttt ctg ata tac atc acg gag tta ctg aaa aag ctg				13754
Asn Tyr His Thr Phe Leu Ile Tyr Ile Thr Glu Leu Leu Lys Lys Leu	4530	4535	4540	
caa tca acc aca gtc atg aac ccc tac atg aag ctt gct cca gga gaa				13802
Gln Ser Thr Thr Val Met Asn Pro Tyr Met Lys Leu Ala Pro Gly Glu	4545	4550	4555	
ctt act atc atc ctc taa ttttttaaaa gaaatcttca tttattcttc				13850
Leu Thr Ile Ile Leu *	4560			
ttttccaatt gaactttcac atagcacaga aaaaattcaa actgcctata ttgataaaac				13910
catacagtga gccagccttg cagtaggcag tagactataa gcagaagcac atatgaactg				13970
gacctgcacc aaagctggca ccagggctcg gaaggtctct gaactcagaa ggatggcatt				14030
ttttgcaagt taaagaaaat caggatctga gttattttgc taaacttggg ggaggaggaa				14090
caaataaatg gagtctttat tgtgtatcat a				14121
<210> 4				
<211> 21				
<212> DNA				
<213> Artificial Sequence				
<220>				
<223> PCR Primer				
<400> 4				
tgctaaaggc acatatggcc t				21
<210> 5				
<211> 23				
<212> DNA				
<213> Artificial Sequence				
<220>				
<223> PCR Primer				
<400> 5				
ctcaggttgg actctccatt gag				23
<210> 6				
<211> 28				
<212> DNA				
<213> Artificial Sequence				
<220>				
<223> PCR Probe				
<400> 6				
cttgtcagag ggatcctaac actggccg				28
<210> 7				
<211> 19				
<212> DNA				
<213> Artificial Sequence				
<220>				

&lt;223&gt; PCR Primer

&lt;400&gt; 7

gaaggtgaag gtcggagtc

19

&lt;210&gt; 8

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR Primer

&lt;400&gt; 8

gaagatggtg atgggatttc

20

&lt;210&gt; 9

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR Probe

&lt;400&gt; 9

caagcttccc gttctcagcc

20

&lt;210&gt; 10

&lt;211&gt; 2354

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 10

gaattccaac ttcctcacct ctcacataca attgaaatac ctgcttttgg caaactgcat 60  
 agcatcctta agatccaatc tcctctcttt atattagatg ctaatgccaa catacagaat 120  
 gtaacaactt caggggaaca agcagagatt gtggcttctg tcactgctaa aggagagtcc 180  
 caatttgaag ctctcaattt tgattttcaa gcacaagctc aattcctgga gttaaactct 240  
 catcctccag tcctgaagga atccatgaac ttctccagta agcatgtgag aatggagcat 300  
 gaggggtgaga tagtatttga tggaaaggcc attgagggga aatcagacac agtcgcaagt 360  
 ttacacacag agaaaaatga agtagagttt aataatggta tgactgtcaa agtaaacaat 420  
 cagctcacc cttgacagtca cacaaagta ttccacaagt tgagtgttcc taggctggac 480  
 ttctccagta aggcttctct taataatgaa atcaagacac tattagaagc tggacatgtg 540  
 gcattgacat cttcaggggac aggggtcatgg aactgggcct gtcccaactt ctcgatgaa 600  
 ggcatacatt cgtcccaa at tagctttact gtggatggtc ccattgcttt tgttggacta 660  
 tccaataaca taaatggcaa acacttacgg gtcattccaaa aactgactta tgaatctggc 720  
 ttcctcaact attctaagtt tgaagttgag tcaaaagttg aatctcagca cgtgggctcc 780  
 agcattctaa cagccaatgg tcgggactg ctcaaggacg caaaggcaga aatgactggt 840  
 gagcacaatg ccaacttaaa tggaaaagtt attggaactt tgaaaaattc tctcttcttt 900  
 tcagcacaac catttgagat tactgcatcc acaaataatg aaggaaattt gaaagtgggt 960  
 tttccactaa agctgactgg gaaaatagac ttcctgaata actatgcatt gtttctgagt 1020

## DOC0216USSEQ2.txt

```

ccccgtgccc aacaagcaag ctggcaagcg agtaccagat tcaatcagta caaatacaat 1080
caaaactttt ctgctataaa caatgaacac aacatagaag ccagtatagg aatgaatgga 1140
gatgccaacc tggattttctt aaacatacct ttaacaattc ctgaaattaa cttgccttac 1200
acggagttca aaactccctt actgaaggat ttctccatat gggaagaaac aggcttgaaa 1260
gaatTTTTga agacaacaaa gcaatcattt gatttgagtg taaaggctca atataaaaag 1320
aacagtgaca agcattccat tgttgtccct ctgggtatgt tttatgaatt tattctcaac 1380
aatgtcaatt cgtgggacag aaaatttgag aaagtcagaa acaatgcttt acattttctt 1440
accacctcct ataatgaagc aaaaattaag gttgataagt acaaaactga aaattccctt 1500
aatcagccct ctgggacctt tcaaaatcat ggctacacta tcccagttgt caacattgaa 1560
gtatctccat ttgctgtaga gacactggct tccaggcatg tgatccccac agcaataagc 1620
acccaagtg tcacaatccc tggtcctaac atcatgggtgc cttcatacaa gttagtgtctg 1680
ccacccttg agttgccagt tttccatggc cctgggaatc tattcaagtt tttcctccca 1740
gatttcaagg gattcaacac tattgacaat atttatattc cagccatggg caactttacc 1800
tatgactttt cttttaaatc aagtgtcatc aactgaata ccaatgctgg actttataac 1860
caatcagata tcgttgccca tttcctttct tcctcttcac ttgtcactga cgccctgcag 1920
tacaaattag agggaacatc acgtctgatg cgaaaaaggg gattgaaact agccacagct 1980
gtctctctaa ctaacaaatt tgtaaagggc agtcatgaca gcaccattag tttaaccaag 2040
aaaaacatgg aagcatcagt gagaacaact gccaacctcc atgctcccat attctcaatg 2100
aacttcaagc aggaacttaa tggaaatacc aagtcaaaac ccactgtttc atcatccatt 2160
gaactaaact atgacttcaa ttctcctcaa ctgcactcta ctgcaacagg aggcattgat 2220
cacaagttca gcttagaaaag tctcacttcc tacttttcca ttgagtcatt caccaaagga 2280
aatatcaaga gttccttcct ttctcaggaa tattcaggaa gtgttgccaa tgaagccaat 2340
gtatatctga attc 2354

```

<210> 11  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 11  
 cgtgggctcc agcattcta 19

<210> 12  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 12  
 agtcatttct gcctttgcgt c 21

<210> 13  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> PCR Probe  
  
 <400> 13  
 ccaatggtcg ggcactgctc aa 22  
  
 <210> 14  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> PCR Primer  
  
 <400> 14  
 ggcaaattca acggcacagt 20  
  
 <210> 15  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> PCR Primer  
  
 <400> 15  
 gggctctcgct cctggaagat 20  
  
 <210> 16  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> PCR Probe  
  
 <400> 16  
 aaggccgaga atgggaagct tgtcatc 27  
  
 <210> 17  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 17  
 ccgcaggtcc cgggtgggaat 20  
  
 <210> 18  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 18  
 accgagaagg gcactcagcc 20  
  
 <210> 19

<211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 19  
 gcctcggcct cgcggccctg 20

<210> 20  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 20  
 tccatcgcca gctgcggtgg 20

<210> 21  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 21  
 cagcgccagc agcgccagca 20

<210> 22  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 22  
 gcccgcagc agcagcagca 20

<210> 23  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 23  
 cttgaatcag cagtcccagg 20

<210> 24  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 24  
 cttcagcaag gctttgccct 20

<210> 25  
 <211> 20

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 25  
 tttctgttgc cacattgccc 20  
  
 <210> 26  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 26  
 ggaagaggtg ttgctccttg 20  
  
 <210> 27  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 27  
 tgtgctacca tcccatactt 20  
  
 <210> 28  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 28  
 tcaaattgcga ggcccatctt 20  
  
 <210> 29  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 29  
 ggacacctca atcagctgtg 20  
  
 <210> 30  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 30  
 tcagggccac caggtagggtg 20  
  
 <210> 31  
 <211> 20  
 <212> DNA



<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31

gtaatcttca tccccagtgc

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32

tgctccatgg tttggcccat

20

<210> 33

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33

gcagccagtc gcttatctcc

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34

gtatagccaa agtgggtccac

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35

cccaggagct ggaggtcatg

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

ttgagccctt cctgatgacc

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 37  
 atctggaccc cactcctagc 20  
 <210> 38  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 38  
 cagacccgac tcgtggaaga 20  
 <210> 39  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 39  
 gccctcagta gattcatcat 20  
 <210> 40  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 40  
 gccatgccac cctcttgga 20  
 <210> 41  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 41  
 aaccacgtg ccgaaagtc 20  
 <210> 42  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 42  
 actcccagat gccttctgaa 20  
 <210> 43  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense oligonucleotide  
 <400> 43  
 atgtggaac gagcccgaag 20  
 <210> 44  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 44  
 ggcgtagaga cccatcacat 20  
 <210> 45  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 45  
 gtgttaggat ccctctgaca 20  
 <210> 46  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 46  
 cccagtata gctctgtgag 20  
 <210> 47  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 47  
 atttcagcat atgagcccat 20  
 <210> 48  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 48  
 ccctgaacct tagcaacagt 20  
 <210> 49  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>

<223> Antisense Oligonucleotide  
 <400> 49  
 gctgaagcca gcccgatgat 20  
 <210> 50  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 50  
 acagctgccc agtatgttct 20  
 <210> 51  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 51  
 cccaataaga ttataacaa 20  
 <210> 52  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 52  
 tggcctacca gagacagga 20  
 <210> 53  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 53  
 tcatacgttt agcccaatct 20  
 <210> 54  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 54  
 gcatgtccc aaggatggtc 20  
 <210> 55  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 55 agtgatggaa gctgcgatac	20
<210> 56 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 56 atgagcatca tgcctcccag	20
<210> 57 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 57 gaacacatag ccgaatgccg	20
<210> 58 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 58 gtggtgccct ctaatttgta	20
<210> 59 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 59 cccagaaaag aaccgaaccc	20
<210> 60 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 60 tgccctgcag cttcactgaa	20
<210> 61 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	

<400> 61  
 gaaatcccat aagctcttgt 20  
 <210> 62  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 62  
 agaagctgcc tcttcttccc 20  
 <210> 63  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 63  
 tcagggtgag ccctgtgtgt 20  
 <210> 64  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 64  
 ctaatggccc cttgataaac 20  
 <210> 65  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 65  
 acgttatcct tgagtcctg 20  
 <210> 66  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 66  
 tatatcccag gtttccccgg 20  
 <210> 67  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 67

acctgggaca gtaccgtccc	DOC0216USSEQ2.txt	20
<210> 68		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 68		
ctgcctactg caaggctggc		20
<210> 69		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 69		
agagaccttc cgagccctgg		20
<210> 70		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 70		
atgatacaca ataaagactc		20
<210> 71		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 71		
attgtatgtg agaggtgagg		20
<210> 72		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 72		
gaggagattg gatcttaagg		20
<210> 73		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 73		
cttcaaattg ggactctcct		20

<210> 74  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 74  
 tccaggaatt gagcttgtgc 20

<210> 75  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 75  
 ttcaggactg gaggatgagg 20

<210> 76  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 76  
 tctcacctc atgctccatt 20

<210> 77  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 77  
 tgactgtcaa gggtagctg 20

<210> 78  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 78  
 gtccagccta ggaacactca 20

<210> 79  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 79  
 atgtcaatgc cacatgtcca 20



<210> 80  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 80  
 ttcattccgag aagttgggac 20

<210> 81  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 81  
 atttgggacg aatgtatgcc 20

<210> 82  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 82  
 agttgaggaa gccagattca 20

<210> 83  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 83  
 ttcccagtca gctttagtgg 20

<210> 84  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 84  
 agcttgcttg ttgggcacgg 20

<210> 85  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 85  
 cctatactgg cttctatgtt 20

<210> 86

<211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 86  
 tgaactccgt gtaaggcaag 20

<210> 87  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 87  
 gagaaatcct tcagtaaggg 20

<210> 88  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 88  
 caatggaatg cttgtcactg 20

<210> 89  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 89  
 gcttcattat aggaggtggt 20

<210> 90  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 90  
 acaactggga tagtgtagcc 20

<210> 91  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 91  
 gttaggacca gggattgtga 20

<210> 92  
 <211> 20

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 92  
 accatggaaa actggcaact 20  
  
 <210> 93  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 93  
 tgggaggaaa aacttgaata 20  
  
 <210> 94  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 94  
 tgggcaacga tatctgattg 20  
  
 <210> 95  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 95  
 ctgcagggcg tcagtgacaa 20  
  
 <210> 96  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 96  
 gcatcagacg tgatgttccc 20  
  
 <210> 97  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 97  
 cttgggttaa ctaatggtgc 20  
  
 <210> 98  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 98

atgggagcat ggaggttggc

20

<210> 99

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 99

aatggatgat gaaacagtgg

20

<210> 100

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 100

atcaatgcct cctgttgacg

20

<210> 101

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 101

ggaagtgaga ctttctaagc

20

<210> 102

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 102

aggaaggaac tcttgatatt

20

<210> 103

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 103

attggcttca ttgcaacac

20

<210> 104

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 104  
 aggtgaggaa gttggaattc 20  
 <210> 105  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 105  
 ttgttcctg aagttgttac 20  
 <210> 106  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 106  
 gttcatggat tccttcagga 20  
 <210> 107  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 107  
 atgctccatt ctcacatgct 20  
 <210> 108  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 108  
 tgcgactgtg tctgatttcc 20  
 <210> 109  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 109  
 gtccctgaag atgtcaatgc 20  
 <210> 110  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
  
 <400> 110  
 aggccagtt ccatgaccct 20  
  
 <210> 111  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 111  
 ggagcccacg tgctgagatt 20  
  
 <210> 112  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 112  
 cgtccttgag cagtgcccgga 20  
  
 <210> 113  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 113  
 cccatatgga gaaatccttc 20  
  
 <210> 114  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 114  
 catgcctgga agccagtgtc 20  
  
 <210> 115  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 115  
 gtgttgaatc ccttgaaatc 20  
  
 <210> 116  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Antisense Oligonucleotide  
 <400> 116  
 ggtaaagttg cccatggctg 20  
 <210> 117  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 117  
 gttataaagt ccagcattgg 20  
 <210> 118  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 118  
 catcagacgt gatgttcctt 20  
 <210> 119  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 119  
 tggctagttt caatcccctt 20  
 <210> 120  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 120  
 ctgtcatgac tgccctttac 20  
 <210> 121  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 121  
 gcttgaagtt cattgagaat 20  
 <210> 122  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 122  
 ttcctgagaa aggaaggaac 20  
 <210> 123  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 123  
 tcagatatac attggcttca 20  
 <210> 124  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 124  
 ttcctcttcg gccctggcgc 20  
 <210> 125  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 125  
 ctccactgga actctcagcc 20  
 <210> 126  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 126  
 cctccagctc aaccttgacg 20  
 <210> 127  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 127  
 ggggtgaagc catacacctc 20  
 <210> 128  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide



<400> 128  
 ccagcttgag ctcatacctg 20  
 <210> 129  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 129  
 ccctcttgat gttcaggatg 20  
 <210> 130  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 130  
 gagcagtttc catacacggt 20  
 <210> 131  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 131  
 cccttcctcg tcttgacggt 20  
 <210> 132  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 132  
 ttgaagcgat cacactgccc 20  
 <210> 133  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 133  
 gcctttgatg agagcaagtg 20  
 <210> 134  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 134

tcctcttagc gtccagtgtg	DOC0216USSEQ2.txt	20	
<210> 135 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 135 cctctcagct cagtaaccag			20
<210> 136 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 136 gcactgaggc tgtccacact			20
<210> 137 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 137 cgctgatccc tcgcatgtt			20
<210> 138 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 138 gttgaccgcg tggctcagcg			20
<210> 139 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 139 gcagctcctg ggtccctgta			20
<210> 140 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 140 cccatggtag aatttgaca			20

<210> 141  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 141  
 aatctcgatg aggtcagctg 20

<210> 142  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 142  
 gacacatca ggaacttgac 20

<210> 143  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 143  
 gtcctctcc caagatgcgg 20

<210> 144  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 144  
 ggcacccatc agaagcagct 20

<210> 145  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 145  
 agtccggaat gatgatgccc 20

<210> 146  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 146  
 ctgagcagct tgactggctc 20

<210> 147  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 147  
 cccggtcagc ggatagtagg 20  
  
 <210> 148  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 148  
 tgtcacaact taggtggccc 20  
  
 <210> 149  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 149  
 gtctggcaat cccatgttct 20  
  
 <210> 150  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 150  
 cccacagact tgaagtggag 20  
  
 <210> 151  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 151  
 gaactgcca tcaatcttga 20  
  
 <210> 152  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 152  
 cccagagagg ccaagctctg 20  
  
 <210> 153

<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 153  
 tgtgttcct gaagcggcca 20  
  
 <210> 154  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 154  
 acccagaatc atggcctgat 20  
  
 <210> 155  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 155  
 ggtgcctgtc tgctcagctg 20  
  
 <210> 156  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 156  
 atgtgaaact tgtctctccc 20  
  
 <210> 157  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 157  
 tatgtctgca gttgagatag 20  
  
 <210> 158  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 158  
 ttgaatccag gatgcagtac 20  
  
 <210> 159  
 <211> 20

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 159  
 gagtctctga gtcacctcac 20  
  
 <210> 160  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 160  
 gatagaatat tgctctgcaa 20  
  
 <210> 161  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 161  
 cccttgctct accaatgctt 20  
  
 <210> 162  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 162  
 tccattccct atgtcagcat 20  
  
 <210> 163  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 163  
 gactccttca gagccagcgg 20  
  
 <210> 164  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 164  
 cccatgctcc gttctcaggt 20  
  
 <210> 165  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 165

cgcaggtcag cctgactaga

20

<210> 166

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 166

cagttagaac actgtggccc

20

<210> 167

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 167

cagtgtgatg acacttgatt

20

<210> 168

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 168

ctgtggctaa cttcaatccc

20

<210> 169

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 169

cagtactgtt atgactaccc

20

<210> 170

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 170

cactgaagac cgtgtgctct

20

<210> 171

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 171  
 tcgtactgtg ctcccagagg 20  
 <210> 172  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 172  
 aagaggccct ctagctgtaa 20  
 <210> 173  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 173  
 aagaccaga atgaatccgg 20  
 <210> 174  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 174  
 gtctacctca aagcgtgcag 20  
 <210> 175  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 175  
 tagaggctaa cgtaccatct 20  
 <210> 176  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 176  
 ccatatccat gcccacggtg 20  
 <210> 177  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence



<220>  
 <223> Antisense Oligonucleotide  
  
 <400> 177  
 agtttcctca tcagattccc 20  
  
 <210> 178  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 178  
 cccagtggta cttgttgaca 20  
  
 <210> 179  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 179  
 cccagtgggtg ccactggctg 20  
  
 <210> 180  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 180  
 gtcaacagtt cctggtacag 20  
  
 <210> 181  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 181  
 ccctagtgtg tatcccaggt 20  
  
 <210> 182  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 182  
 ctgaagatta cgtagcacct 20  
  
 <210> 183  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Antisense Oligonucleotide  
 <400> 183  
 gtccagccaa ctatacttgg 20  
 <210> 184  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 184  
 cctggagcaa gcttcatgta 20  
 <210> 185  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 185  
 tggacagacc aggctgacat 20  
 <210> 186  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 186  
 atgtgtactt ccggagggtgc 20  
 <210> 187  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 187  
 tcttcaggat gaagctgcag 20  
 <210> 188  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 188  
 tcagcaaggc tttgccctca 20  
 <210> 189  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 189 ctgcttcct tctggaatgg	20
<210> 190 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 190 tgccacattg cccttcctcg	20
<210> 191 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 191 gctgatcaga gttgacaagg	20
<210> 192 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 192 tactgacagg actggctgct	20
<210> 193 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 193 gatggcttct gccacatgct	20
<210> 194 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 194 gatgtggatt tgggtgctctc	20
<210> 195 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	

<400> 195 tgactgcttc atcactgagg	20
<210> 196 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 196 ggtaggtgac cacatctatc	20
<210> 197 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 197 tcgcagctgc tgtgctgagg	20
<210> 198 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 198 ttccaatgac ccgcagaatc	20
<210> 199 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 199 gatcatcagt gatggctttg	20
<210> 200 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 200 agcctggatg gcagctttct	20
<210> 201 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 201	

gtctgaagaa gaacctcctg	DOC0216USSEQ2.txt	20
<210> 202		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 202		
tatctgcctg tgaaggactc		20
<210> 203		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 203		
ctgagttcaa gatattggca		20
<210> 204		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 204		
cttccaagcc aatctcgatg		20
<210> 205		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 205		
tgcaactgta atccagctcc		20
<210> 206		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 206		
ccagttcagc ctgcatgttg		20
<210> 207		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 207		
gtagagacca aatgtaatgt		20

<210> 208  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 208  
 cgttggagta agcgcctgag 20  
  
 <210> 209  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 209  
 cagctctaata ctggtgtccc 20  
  
 <210> 210  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 210  
 ctgtcctctc tctggagctc 20  
  
 <210> 211  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 211  
 caaggtcata ctctgccgat 20  
  
 <210> 212  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 212  
 gtatggaaat aacacccttg 20  
  
 <210> 213  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 213  
 taagctgtag cagatgagtc 20

<210> 214  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 214  
 tagatctctg gaggatttgc 20  
  
 <210> 215  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 215  
 gtctagaaca cccaggagag 20  
  
 <210> 216  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 216  
 accacagagt cagccttcat 20  
  
 <210> 217  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 217  
 aagcagacat ctgtggtccc 20  
  
 <210> 218  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 218  
 ctctccattg agccggccag 20  
  
 <210> 219  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 219  
 cctgatattc agaacgcagc 20  
  
 <210> 220

<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 220  
 cagtgcctaa gatgtcagca 20  
  
 <210> 221  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 221  
 agcaccagga gactacactt 20  
  
 <210> 222  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 222  
 cccatccaga ctgaattttg 20  
  
 <210> 223  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 223  
 ggttctagcc gtagtttccc 20  
  
 <210> 224  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 224  
 aggttaccag ccacatgcag 20  
  
 <210> 225  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 225  
 atgtgcatcg atggtcatgg 20  
  
 <210> 226  
 <211> 20



<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 226  
 ccagagagcg agtttcccat 20  
  
 <210> 227  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 227  
 ctagacacga gatgatgact 20  
  
 <210> 228  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 228  
 tccaagtcct ggctgtattc 20  
  
 <210> 229  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 229  
 cgtccagtaa gctccacgcc 20  
  
 <210> 230  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 230  
 tcaacggcat ctctcatctc 20  
  
 <210> 231  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 231  
 tgatagtgct catcaagact 20  
  
 <210> 232  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 232

gattctgatt tggacttag

20

<210> 233

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 233

ctctcgatta actcatggac

20

<210> 234

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 234

atacactgca actgtggcct

20

<210> 235

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 235

gcaagagtcc accaatcaga

20

<210> 236

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 236

agagcctgaa gactgacttc

20

<210> 237

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 237

tccctcatct gagaatctgg

20

<210> 238

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
  
 <400> 238  
 cagtgcacatca atgacagatg 20  
  
 <210> 239  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 239  
 ccgaaccctt gacatctcct 20  
  
 <210> 240  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 240  
 gcctcactag caatagttcc 20  
  
 <210> 241  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 241  
 gacatttgcc atggagagag 20  
  
 <210> 242  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 242  
 ctgtctccta ccaatgctgg 20  
  
 <210> 243  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 243  
 tctgcactga agtcacggtg 20  
  
 <210> 244  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense oligonucleotide  
 <400> 244  
 tccccgaccc tcaactcagt 20  
 <210> 245  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 245  
 gcaggtccag ttcataatgtg 20  
 <210> 246  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 246  
 gccatccttc tgagttcaga 20  
 <210> 247  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 247  
 gcctcagtct gcttcgcacc 20  
 <210> 248  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 248  
 ccccgaggt cccggtggga 20  
 <210> 249  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense oligonucleotide  
 <400> 249  
 cagccccgca ggtcccgtg 20  
 <210> 250  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>

<223> Antisense Oligonucleotide  
 <400> 250  
 caaccgagaa gggcactcag 20  
 <210> 251  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 251  
 cctcagcggc agcaaccgag 20  
 <210> 252  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 252  
 tcctcagcgg cagcaaccga 20  
 <210> 253  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 253  
 ctctcagcgg gcagcaaccg 20  
 <210> 254  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 254  
 ggctcctcag cggcagcaac 20  
 <210> 255  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 255  
 ggcgggctcc tcagcggcag 20  
 <210> 256  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 256 ggtccatcgc cagctgcggt	20
<210> 257 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 257 ggcgggtcca tcgccagctg	20
<210> 258 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 258 tagaggatga tagtaagttc	20
<210> 259 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 259 aaatgaagat ttcttttaaa	20
<210> 260 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 260 tatgtgaaag ttcaattgga	20
<210> 261 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 261 atataggcag tttgaatttt	20
<210> 262 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	

<400> 262  
 gctcactgta tggttttatc 20  
 <210> 263  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 263  
 ggctcactgt atggttttat 20  
 <210> 264  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 264  
 ggctggctca ctgtatgggt 20  
 <210> 265  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 265  
 aggctggctc actgtatggt 20  
 <210> 266  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 266  
 aaggctggct cactgtatgg 20  
 <210> 267  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 267  
 ctactgcaag gctggctcac 20  
 <210> 268  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 268

actgcctact gcaaggctgg	DOC0216USSEQ2.txt	20	
<210> 269 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 269 tgcttatagt ctactgccta			20
<210> 270 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 270 ttctgcttat agtctactgc			20
<210> 271 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 271 tttggtgcag gtccagttca			20
<210> 272 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 272 cagctttggt gcaggtccag			20
<210> 273 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 273 gccagctttg gtgcaggtcc			20
<210> 274 <211> 20 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 274 tgggtgccagc tttggtgcag			20



<210> 275  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 275  
 gccctggtgc cagctttggt 20  
  
 <210> 276  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 276  
 gagttcagag accttccgag 20  
  
 <210> 277  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 277  
 aaatgccatc cttctgagtt 20  
  
 <210> 278  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 278  
 aaaaatgccca tccttctgag 20  
  
 <210> 279  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 279  
 aaaataactc agatcctgat 20  
  
 <210> 280  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 280  
 agcaaaataa ctcagatcct 20

<210> 281  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 281  
 agtttagcaa aataactcag 20  
  
 <210> 282  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 282  
 tcccccaagt ttagcaaat 20  
  
 <210> 283  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 283  
 ttcctcctcc cccaagtta 20  
  
 <210> 284  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 284  
 agactccatt tatttgttcc 20  
  
 <210> 285  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 285  
 cttctgcttg agttacaaac 20  
  
 <210> 286  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 286  
 accttctgct tgagttacaa 20  
  
 <210> 287

<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 287  
 gcaccttctg cttgagttac 20  
  
 <210> 288  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 288  
 tcgcaccttc tgcttgagtt 20  
  
 <210> 289  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 289  
 cttcgacct tctgcttgag 20  
  
 <210> 290  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 290  
 tgcttcgcac cttctgcttg 20  
  
 <210> 291  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 291  
 tctgcttcgc accttctgct 20  
  
 <210> 292  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 292  
 agtctgcttc gcaccttctg 20  
  
 <210> 293  
 <211> 20

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 293  
 tcagtctgct tcgcaccttc 20

<210> 294  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 294  
 cctcagtctg cttcgacct 20

<210> 295  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 295  
 agcctcagtc tgcttcgcac 20

<210> 296  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 296  
 gtagcctcag tctgcttcgc 20

<210> 297  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 297  
 tggtagcctc agtctgcttc 20

<210> 298  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 298  
 catggtagcc tcagtctgct 20

<210> 299  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 299

gtcatggtag cctcagtctg

20

<210> 300

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 300

atgtcatggt agcctcagtc

20

<210> 301

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 301

gaatgtcatg gtagcctcag

20

<210> 302

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 302

ttgaatgtca tggtagcctc

20

<210> 303

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 303

atttgaatgt catggtagcc

20

<210> 304

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 304

atatttgaat gtcatggtag

20

<210> 305

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 305  
 cagccacatg cagcttcagg 20  
 <210> 306  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 306  
 accagccaca tgcagcttca 20  
 <210> 307  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 307  
 ttaccagcca catgcagctt 20  
 <210> 308  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 308  
 ggttaccagc cacatgcagc 20  
 <210> 309  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 309  
 taggttacca gccacatgca 20  
 <210> 310  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 310  
 tttaggttac cagccacatg 20  
 <210> 311  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

```

<220>
<223> Antisense Oligonucleotide

<400> 311
cttttaggtt accagccaca                20

<210> 312
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 312
tccttttagg ttaccagcca                20

<210> 313
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 313
gctcctttaa ggttaccagc                20

<210> 314
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 314
aggctccttt taggttacca                20

<210> 315
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 315
gtaggctcct ttaggttac                20

<210> 316
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 316
tggtaggctc cttttaggtt                20

<210> 317
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

```

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 317

tttggtaggc tccttttagg

20

&lt;210&gt; 318

&lt;211&gt; 13993

&lt;212&gt; DNA

&lt;213&gt; H. sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1).. (13692)

&lt;400&gt; 318

atg gac ccg ccg agg ccc gcg ctg ctg gcg ctg ctg gcg ctg cct gcg	48
Met Asp Pro Pro Arg Pro Ala Leu Leu Ala Leu Leu Ala Leu Pro Ala	
1 5 10 15	
ctg ctg ctg ctg ctg ctg gcg ggc gcc agg gcc gaa gag gaa atg ctg	96
Leu Leu Leu Leu Leu Leu Ala Gly Ala Arg Ala Glu Glu Glu Met Leu	
20 25 30	
gaa aat gtc agc ctg gtc tgt cca aaa gat gcg acc cga ttc aag cac	144
Glu Asn Val Ser Leu Val Cys Pro Lys Asp Ala Thr Arg Phe Lys His	
35 40 45	
ctc cgg aag tac aca tac aac tat gag gct gag agt tcc agt gga gtc	192
Leu Arg Lys Tyr Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser Gly Val	
50 55 60	
cct ggg act gct gat tca aga agt gcc acc agg atc aac tgc aag gtt	240
Pro Gly Thr Ala Asp Ser Arg Ser Ala Thr Arg Ile Asn Cys Lys Val	
65 70 75 80	
gag ctg gag gtt ccc cag ctg tgc agc ttc atc ctg aag acc agc cag	288
Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Thr Ser Gln	
85 90 95	
tgc acc ctg aaa gag gtg tat ggc ttc aac cct gag ggc aaa gcc ttg	336
Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala Leu	
100 105 110	
ctg aag aaa acc aag aac tct gag gag ttt gct gca gcc atg tcc agg	384
Leu Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met Ser Arg	
115 120 125	
tat gag ctg aag ctg gcc att cca gaa ggg aag cag gtt ttc ctt tac	432
Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe Leu Tyr	
130 135 140	
ccg gag aaa gat gaa cct act tac atc ctg aac atc aag agg ggc atc	480
Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg Gly Ile	
145 150 155 160	
att tct gcc ctg ctg gtt ccc cca gag aca gaa gaa gcc aag caa gtg	528
Ile Ser Ala Leu Leu Val Pro Pro Glu Thr Glu Glu Ala Lys Gln Val	
165 170 175	
ttg ttt ctg gat acc gtg tat gga aac tgc tcc act cac ttt acc gtc	576
Leu Phe Leu Asp Thr Val Tyr Gly Asn Cys Ser Thr His Phe Thr Val	
180 185 190	
aag acg agg aag ggc aat gtg gca aca gaa ata tcc act gaa aga gac	624
Lys Thr Arg Lys Gly Asn Val Ala Thr Glu Ile Ser Thr Glu Arg Asp	



DOC0216USSEQ2.txt

195	200	205		
ctg ggg cag tgt gat cgc ttc aag ccc atc cgc aca ggc atc agc cca Leu Gly Gln Cys Asp Arg Phe Lys Pro Ile Arg Thr Gly Ile Ser Pro	210	215	220	672
ctt gct ctc atc aaa ggc atg acc cgc ccc ttg tca act ctg atc agc Leu Ala Leu Ile Lys Gly Met Thr Arg Pro Leu Ser Thr Leu Ile Ser	225	230	235	720
agc agc cag tcc tgt cag tac aca ctg gac gct aag agg aag cat gtg Ser Ser Gln Ser Cys Gln Tyr Thr Leu Asp Ala Lys Arg Lys His Val	245	250	255	768
gca gaa gcc atc tgc aag gag caa cac ctc ttc ctg cct ttc tcc tac Ala Glu Ala Ile Cys Lys Glu Gln His Leu Phe Leu Pro Phe Ser Tyr	260	265	270	816
aag aat aag tat ggg atg gta gca caa gtg aca cag act ttg aaa ctt Lys Asn Lys Tyr Gly Met Val Ala Gln Val Thr Gln Thr Leu Lys Leu	275	280	285	864
gaa gac aca cca aag atc aac agc cgc ttc ttt ggt gaa ggt act aag Glu Asp Thr Pro Lys Ile Asn Ser Arg Phe Phe Gly Glu Gly Thr Lys	290	295	300	912
aag atg ggc ctc gca ttt gag agc acc aaa tcc aca tca cct cca aag Lys Met Gly Leu Ala Phe Glu Ser Thr Lys Ser Thr Ser Pro Pro Lys	305	310	315	960
cag gcc gaa gct gtt ttg aag act ctc cag gaa ctg aaa aaa cta acc Gln Ala Glu Ala Val Leu Lys Thr Leu Gln Glu Leu Lys Lys Leu Thr	325	330	335	1008
atc tct gag caa aat atc cag aga gct aat ctc ttc aat aag ctg gtt Ile Ser Glu Gln Asn Ile Gln Arg Ala Asn Leu Phe Asn Lys Leu Val	340	345	350	1056
act gag ctg aga ggc ctc agt gat gaa gca gtc aca tct ctc ttg cca Thr Glu Leu Arg Gly Leu Ser Asp Glu Ala Val Thr Ser Leu Leu Pro	355	360	365	1104
cag ctg att gag gtg tcc agc ccc atc act tta caa gcc ttg gtt cag Gln Leu Ile Glu Val Ser Ser Pro Ile Thr Leu Gln Ala Leu Val Gln	370	375	380	1152
tgt gga cag cct cag tgc tcc act cac atc ctc cag tgg ctg aaa cgt Cys Gly Gln Pro Gln Cys Ser Thr His Ile Leu Gln Trp Leu Lys Arg	385	390	395	1200
gtg cat gcc aac ccc ctt ctg ata gat gtg gtc acc tac ctg gtg gcc Val His Ala Asn Pro Leu Leu Ile Asp Val Val Thr Tyr Leu Val Ala	405	410	415	1248
ctg atc ccc gag ccc tca gca cag cag ctg cga gag atc ttc aac atg Leu Ile Pro Glu Pro Ser Ala Gln Gln Leu Arg Glu Ile Phe Asn Met	420	425	430	1296
gcg agg gat cag cgc agc cga gcc acc ttg tat gcg ctg agc cac gcg Ala Arg Asp Gln Arg Ser Arg Ala Thr Leu Tyr Ala Leu Ser His Ala	435	440	445	1344
gtc aac aac tat cat aag aca aac cct aca ggg acc cag gag ctg ctg Val Asn Asn Tyr His Lys Thr Asn Pro Thr Gly Thr Gln Glu Leu Leu	450	455	460	1392
gac att gct aat tac ctg atg gaa cag att caa gat gac tgc act ggg				1440

DOC0216USSEQ2.txt

Asp 465	Ile	Ala	Asn	Tyr	Leu 470	Met	Glu	Gln	Ile	Gln 475	Asp	Asp	Cys	Thr	Gly 480	
gat	gaa	gat	tac	acc	tat	ttg	att	ctg	cgg	gtc	att	gga	aat	atg	ggc	1488
Asp	Glu	Asp	Tyr	Thr 485	Tyr	Leu	Ile	Leu	Arg 490	Val	Ile	Gly	Asn	Met 495	Gly	
caa	acc	atg	gag	cag	tta	act	cca	gaa	ctc	aag	tct	tca	atc	ctg	aaa	1536
Gln	Thr	Met	Glu 500	Gln	Leu	Thr	Pro	Glu 505	Leu	Lys	Ser	Ser	Ile 510	Leu	Lys	
tgt	gtc	caa	agt	aca	aag	cca	tca	ctg	atg	atc	cag	aaa	gct	gcc	atc	1584
Cys	Val	Gln 515	Ser	Thr	Lys	Pro	Ser 520	Leu	Met	Ile	Gln	Lys 525	Ala	Ala	Ile	
cag	gct	ctg	cgg	aaa	atg	gag	cct	aaa	gac	aag	gac	cag	gag	gtt	ctt	1632
Gln	Ala 530	Leu	Arg	Lys	Met	Glu 535	Pro	Lys	Asp	Lys	Asp 540	Gln	Glu	Val	Leu	
ctt	cag	act	ttc	ctt	gat	gat	gct	tct	ccg	gga	gat	aag	cga	ctg	gct	1680
Leu 545	Gln	Thr	Phe	Leu	Asp 550	Asp	Ala	Ser	Pro	Gly 555	Asp	Lys	Arg	Leu	Ala 560	
gcc	tat	ctt	atg	ttg	atg	agg	agt	cct	tca	cag	gca	gat	att	aac	aaa	1728
Ala	Tyr	Leu	Met	Leu 565	Met	Arg	Ser	Pro	Ser 570	Gln	Ala	Asp	Ile	Asn 575	Lys	
att	gtc	caa	att	cta	cca	tgg	gaa	cag	aat	gag	caa	gtg	aag	aac	ttt	1776
Ile	Val	Gln	Ile 580	Leu	Pro	Trp	Glu	Gln 585	Asn	Glu	Gln	Val	Lys 590	Asn	Phe	
gtg	gct	tcc	cat	att	gcc	aat	atc	ttg	aac	tca	gaa	gaa	ttg	gat	atc	1824
Val	Ala	Ser 595	His	Ile	Ala	Asn	Ile 600	Leu	Asn	Ser	Glu	Glu 605	Leu	Asp	Ile	
caa	gat	ctg	aaa	aag	tta	gtg	aaa	gaa	gct	ctg	aaa	gaa	tct	caa	ctt	1872
Gln	Asp 610	Leu	Lys	Lys	Leu	Val 615	Lys	Glu	Ala	Leu	Lys 620	Glu	Ser	Gln	Leu	
cca	act	gtc	atg	gac	ttc	aga	aaa	ttc	tct	cgg	aac	tat	caa	ctc	tac	1920
Pro	Thr	Val	Met	Asp 630	Phe	Arg	Lys	Phe	Ser	Arg 635	Asn	Tyr	Gln	Leu	Tyr 640	
aaa	tct	gtt	tct	ctt	cca	tca	ctt	gac	cca	gcc	tca	gcc	aaa	ata	gaa	1968
Lys	Ser	Val	Ser	Leu 645	Pro	Ser	Leu	Asp 650	Pro	Ala	Ser	Ala	Lys	Ile 655	Glu	
ggg	aat	ctt	ata	ttt	gat	cca	aat	aac	tac	ctt	cct	aaa	gaa	agc	atg	2016
Gly	Asn	Leu	Ile 660	Phe	Asp	Pro	Asn	Asn 665	Tyr	Leu	Pro	Lys	Glu 670	Ser	Met	
ctg	aaa	act	acc	ctc	act	gcc	ttt	gga	ttt	gct	tca	gct	gac	ctc	atc	2064
Leu	Lys	Thr 675	Thr	Leu	Thr	Ala	Phe 680	Gly	Phe	Ala	Ser	Ala 685	Asp	Leu	Ile	
gag	att	ggc	ttg	gaa	gga	aaa	ggc	ttt	gag	cca	aca	ttg	gag	gct	cct	2112
Glu	Ile 690	Gly	Leu	Glu	Gly	Lys 695	Gly	Phe	Glu	Pro	Thr 700	Leu	Glu	Ala	Pro	
ttt	ggg	aag	caa	gga	ttt	ttc	cca	gac	agt	gtc	aac	aaa	gct	ttg	tac	2160
Phe 705	Gly	Lys	Gln	Gly	Phe 710	Phe	Pro	Asp	Ser	Val 715	Asn	Lys	Ala	Leu	Tyr 720	
tgg	gtt	aat	ggt	caa	gtt	cct	gat	ggt	gtc	tct	aag	gtc	tta	gtg	gac	2208
Trp	Val	Asn	Gly 725	Gln	Val	Pro	Asp	Gly	Val 730	Ser	Lys	Val	Leu	Val 735	Asp	

## DOC0216USSEQ2.txt

cac His	ttt Phe	ggc Gly	tat Tyr 740	acc Thr	aaa Lys	gat Asp	gat Asp	aaa Lys 745	cat His	gag Glu	cag Gln	gat Asp	atg Met 750	gta Val	aat Asn	2256
gga Gly	ata Ile	atg Met 755	ctc Leu	agt Ser	gtt Val	gag Glu	aag Lys 760	ctg Leu	att Ile	aaa Lys	gat Asp	ttg Leu 765	aaa Lys	tcc Ser	aaa Lys	2304
gaa Glu	gtc Val 770	ccg Pro	gaa Glu	gcc Ala	aga Arg	gcc Ala 775	tac Tyr	ctc Leu	cgc Arg	atc Ile	ttg Leu 780	gga Gly	gag Glu	gag Glu	ctt Leu	2352
ggt Gly 785	ttt Phe	gcc Ala	agt Ser	ctc Leu	cat His 790	gac Asp	ctc Leu	cga Arg	ctc Leu	ctg Leu 795	gga Gly	aag Lys	ctg Leu	ctt Leu	ctg Leu 800	2400
atg Met	ggt Gly	gcc Ala	cgc Arg	act Thr 805	ctg Leu	cag Gln	ggg Gly	atc Ile	ccc Pro 810	cag Gln	atg Met	att Ile	gga Gly	gag Glu 815	gtc Val	2448
atc Ile	agg Arg	aag Lys	ggc Gly 820	tca Ser	aag Lys	aat Asn	gac Asp	ttt Phe 825	ttt Phe	ctt Leu	cac His	tac Tyr	atc Ile 830	ttc Phe	atg Met	2496
gag Glu	aat Asn	gcc Ala 835	ttt Phe	gaa Glu	ctc Leu	ccc Pro	act Thr 840	gga Gly	gct Ala	gga Gly	tta Leu	cag Gln 845	ttg Leu	caa Gln	ata Ile	2544
tct Ser	tca Ser 850	tct Ser	gga Gly	gtc Val	att Ile	gct Ala 855	ccc Pro	gga Gly	gcc Ala	aag Lys	gct Ala 860	gga Gly	gta Val	aaa Lys	ctg Leu	2592
gaa Glu 865	gta Val	gcc Ala	aac Asn	atg Met	cag Gln 870	gct Ala	gaa Glu	ctg Leu	gtg Val	gca Ala 875	aaa Lys	ccc Pro	tcc Ser	gtg Val	tct Ser 880	2640
gtg Val	gag Glu	ttt Phe	gtg Val	aca Thr 885	aat Asn	atg Met	ggc Gly	atc Ile	atc Ile 890	att Ile	ccg Pro	gac Asp	ttc Phe	gct Ala 895	agg Arg	2688
agt Ser	ggg Gly	gtc Val	cag Gln 900	atg Met	aac Asn	acc Thr	aac Asn	ttc Phe 905	ttc Phe	cac His	gag Glu	tcg Ser	ggt Gly 910	ctg Leu	gag Glu	2736
gct Ala	cat His	gtt Val 915	gcc Ala	cta Leu	aaa Lys	gct Ala	ggg Gly 920	aag Lys	ctg Leu	aag Lys	ttt Phe	atc Ile 925	att Ile	cct Pro	tcc Ser	2784
cca Pro	aag Lys 930	aga Arg	cca Pro	gtc Val	aag Lys	ctg Leu 935	ctc Leu	agt Ser	gga Gly	ggc Gly	aac Asn 940	aca Thr	tta Leu	cat His	ttg Leu	2832
gtc Val 945	tct Ser	acc Thr	acc Thr	aaa Lys	acg Thr 950	gag Glu	gtc Val	atc Ile	cca Pro	cct Pro 955	ctc Leu	att Ile	gag Glu	aac Asn	agg Arg 960	2880
cag Gln	tcc Ser	tgg Trp	tca Ser	gtt Val 965	tgc Cys	aag Lys	caa Gln	gtc Val	ttt Phe 970	cct Pro	ggc Gly	ctg Leu	aat Asn	tac Tyr 975	tgc Cys	2928
acc Thr	tca Ser	ggc Gly	gct Ala 980	tac Tyr	tcc Ser	aac Asn	gcc Ala	agc Ser 985	tcc Ser	aca Thr	gac Asp	tcc Ser	gcc Ala 990	tcc Ser	tac Tyr	2976
tat	ccg	ctg	acc	ggg	gac	acc	aga	tta	gag	ctg	gaa	ctg	agg	cct	aca	3024

## DOC0216USSEQ2.txt

Tyr	Pro	Leu	Thr	Gly	Asp	Thr	Arg	Leu	Glu	Leu	Glu	Leu	Arg	Pro	Thr		
		995					1000						1005				
gga	gag	att	gag	cag	tat	tct	gtc	agc	gca	acc	tat	gag	ctc	cag	aga	3072	
Gly	Glu	Ile	Glu	Gln	Tyr	Ser	Val	Ser	Ala	Thr	Tyr	Glu	Leu	Gln	Arg		
	1010					1015					1020						
gag	gac	aga	gcc	ttg	gtg	gat	acc	ctg	aag	ttt	gta	act	caa	gca	gaa	3120	
Glu	Asp	Arg	Ala	Leu	Val	Asp	Thr	Leu	Lys	Phe	Val	Thr	Gln	Ala	Glu		
1025					1030					1035					1040		
ggc	gcg	aag	cag	act	gag	gct	acc	atg	aca	ttc	aaa	tat	aat	cgg	cag	3168	
Gly	Ala	Lys	Gln	Thr	Glu	Ala	Thr	Met	Thr	Phe	Lys	Tyr	Asn	Arg	Gln		
				1045					1050					1055			
agt	atg	acc	ttg	tcc	agt	gaa	gtc	caa	att	ccg	gat	ttt	gat	gtt	gac	3216	
Ser	Met	Thr	Leu	Ser	Ser	Glu	Val	Gln	Ile	Pro	Asp	Phe	Asp	Val	Asp		
			1060					1065					1070				
ctc	gga	aca	atc	ctc	aga	gtt	aat	gat	gaa	tct	act	gag	ggc	aaa	acg	3264	
Leu	Gly	Thr	Ile	Leu	Arg	Val	Asn	Asp	Glu	Ser	Thr	Glu	Gly	Lys	Thr		
		1075					1080					1085					
tct	tac	aga	ctc	acc	ctg	gac	att	cag	aac	aag	aaa	att	act	gag	gtc	3312	
Ser	Tyr	Arg	Leu	Thr	Leu	Asp	Ile	Gln	Asn	Lys	Lys	Ile	Thr	Glu	Val		
	1090					1095					1100						
gcc	ctc	atg	ggc	cac	cta	agt	tgt	gac	aca	aag	gaa	gaa	aga	aaa	atc	3360	
Ala	Leu	Met	Gly	His	Leu	Ser	Cys	Asp	Thr	Lys	Glu	Glu	Arg	Lys	Ile		
1105					1110					1115					1120		
aag	ggt	gtt	att	tcc	ata	ccc	cgt	ttg	caa	gca	gaa	gcc	aga	agt	gag	3408	
Lys	Gly	Val	Ile	Ser	Ile	Pro	Arg	Leu	Gln	Ala	Glu	Ala	Arg	Ser	Glu		
				1125					1130					1135			
atc	ctc	gcc	cac	tgg	tcg	cct	gcc	aaa	ctg	ctt	ctc	caa	atg	gac	tca	3456	
Ile	Leu	Ala	His	Trp	Ser	Pro	Ala	Lys	Leu	Leu	Leu	Gln	Met	Asp	Ser		
			1140					1145					1150				
tct	gct	aca	gct	tat	ggc	tcc	aca	gtt	tcc	aag	agg	gtg	gca	tgg	cat	3504	
Ser	Ala	Thr	Ala	Tyr	Gly	Ser	Thr	Val	Ser	Lys	Arg	Val	Ala	Trp	His		
		1155					1160					1165					
tat	gat	gaa	gag	aag	att	gaa	ttt	gaa	tgg	aac	aca	ggc	acc	aat	gta	3552	
Tyr	Asp	Glu	Glu	Lys	Ile	Glu	Phe	Glu	Trp	Asn	Thr	Gly	Thr	Asn	Val		
	1170					1175					1180						
gat	acc	aaa	aaa	atg	act	tcc	aat	ttc	cct	gtg	gat	ctc	tcc	gat	tat	3600	
Asp	Thr	Lys	Lys	Met	Thr	Ser	Asn	Phe	Pro	Val	Asp	Leu	Ser	Asp	Tyr		
1185					1190					1195					1200		
cct	aag	agc	ttg	cat	atg	tat	gct	aat	aga	ctc	ctg	gat	cac	aga	gtc	3648	
Pro	Lys	Ser	Leu	His	Met	Tyr	Ala	Asn	Arg	Leu	Leu	Asp	His	Arg	Val		
				1205					1210					1215			
cct	caa	aca	gac	atg	act	ttc	cgg	cac	gtg	ggt	tcc	aaa	tta	ata	gtt	3696	
Pro	Gln	Thr	Asp	Met	Thr	Phe	Arg	His	Val	Gly	Ser	Lys	Leu	Ile	Val		
			1220					1225					1230				
gca	atg	agc	tca	tgg	ctt	cag	aag	gca	tct	ggg	agt	ctt	cct	tat	acc	3744	
Ala	Met	Ser	Ser	Trp	Leu	Gln	Lys	Ala	Ser	Gly	Ser	Leu	Pro	Tyr	Thr		
		1235					1240					1245					
cag	act	ttg	caa	gac	cac	ctc	aat	agc	ctg	aag	gag	ttc	aac	ctc	cag	3792	
Gln	Thr	Leu	Gln	Asp	His	Leu	Asn	Ser	Leu	Lys	Glu	Phe	Asn	Leu	Gln		

## DOC0216USSEQ2.txt

1250	1255	1260	
aac atg gga ttg cca gac tcc cac atc cca gaa aac ctc ttc tta aaa			3840
Asn Met Gly Leu Pro Asp Ser His Ile Pro Glu Asn Leu Phe Leu Lys			
1265	1270	1275	1280
agc gat ggc cgc gtc aaa tat acc ttg aac aag aac agt ttg aaa att			3888
Ser Asp Gly Arg Val Lys Tyr Thr Leu Asn Lys Asn Ser Leu Lys Ile			
	1285	1290	1295
gag att cct ttg cct ttt ggt ggc aaa tcc tcc aga gat cta aag atg			3936
Glu Ile Pro Leu Pro Phe Gly Gly Lys Ser Ser Arg Asp Leu Lys Met			
	1300	1305	1310
tta gag act gtt agg aca cca gcc ctc cac ttc aag tct gtg gga ttc			3984
Leu Glu Thr Val Arg Thr Pro Ala Leu His Phe Lys Ser Val Gly Phe			
	1315	1320	1325
cat ctg cca tct cga gag ttc caa gtc cct act ttt acc att ccc aag			4032
His Leu Pro Ser Arg Glu Phe Gln Val Pro Thr Phe Thr Ile Pro Lys			
	1330	1335	1340
ttg tat caa ctg caa gtg cct ctc ctg ggt gtt cta gac ctc tcc acg			4080
Leu Tyr Gln Leu Gln Val Pro Leu Leu Gly Val Leu Asp Leu Ser Thr			
	1345	1350	1355
aat gtc tac agc aac ttg tac aac tgg tcc gcc tcc tac agt ggt ggc			4128
Asn Val Tyr Ser Asn Leu Tyr Asn Trp Ser Ala Ser Tyr Ser Gly Gly			
	1365	1370	1375
aac acc agc aca gac cat ttc agc ctt cgg gct cgt tac cac atg aag			4176
Asn Thr Ser Thr Asp His Phe Ser Leu Arg Ala Arg Tyr His Met Lys			
	1380	1385	1390
gct gac tct gtg gtt gac ctg ctt tcc tac aat gtg caa gga tct gga			4224
Ala Asp Ser Val Val Asp Leu Leu Ser Tyr Asn Val Gln Gly Ser Gly			
	1395	1400	1405
gaa aca aca tat gac cac aag aat acg ttc aca cta tca tgt gat ggg			4272
Glu Thr Thr Tyr Asp His Lys Asn Thr Phe Thr Leu Ser Cys Asp Gly			
	1410	1415	1420
tct cta cgc cac aaa ttt cta gat tcg aat atc aaa ttc agt cat gta			4320
Ser Leu Arg His Lys Phe Leu Asp Ser Asn Ile Lys Phe Ser His Val			
	1425	1430	1435
gaa aaa ctt gga aac aac cca gtc tca aaa ggt tta cta ata ttc gat			4368
Glu Lys Leu Gly Asn Asn Pro Val Ser Lys Gly Leu Leu Ile Phe Asp			
	1445	1450	1455
gca tct agt tcc tgg gga cca cag atg tct gct tca gtt cat ttg gac			4416
Ala Ser Ser Ser Trp Gly Pro Gln Met Ser Ala Ser Val His Leu Asp			
	1460	1465	1470
tcc aaa aag aaa cag cat ttg ttt gtc aaa gaa gtc aag att gat ggg			4464
Ser Lys Lys Lys Gln His Leu Phe Val Lys Glu Val Lys Ile Asp Gly			
	1475	1480	1485
cag ttc aga gtc tct tcg ttc tat gct aaa ggc aca tat ggc ctg tct			4512
Gln Phe Arg Val Ser Ser Phe Tyr Ala Lys Gly Thr Tyr Gly Leu Ser			
	1490	1495	1500
tgt cag agg gat cct aac act ggc cgg ctc aat gga gag tcc aac ctg			4560
Cys Gln Arg Asp Pro Asn Thr Gly Arg Leu Asn Gly Glu Ser Asn Leu			
	1505	1510	1515
agg ttt aac tcc tcc tac ctc caa ggc acc aac cag ata aca gga aga			4608

## DOC0216USSEQ2.txt

Arg	Phe	Asn	Ser	Ser	Tyr	Leu	Gln	Gly	Thr	Asn	Gln	Ile	Thr	Gly	Arg	
				1525				1530						1535		
tat	gaa	gat	gga	acc	ctc	tcc	ctc	acc	tcc	acc	tct	gat	ctg	caa	agt	4656
Tyr	Glu	Asp	Gly	Thr	Leu	Ser	Leu	Thr	Ser	Thr	Ser	Asp	Leu	Gln	Ser	
			1540					1545					1550			
ggc	atc	att	aaa	aat	act	gct	tcc	cta	aag	tat	gag	aac	tac	gag	ctg	4704
Gly	Ile	Ile	Lys	Asn	Thr	Ala	Ser	Leu	Lys	Tyr	Glu	Asn	Tyr	Glu	Leu	
		1555					1560					1565				
act	tta	aaa	tct	gac	acc	aat	ggg	aag	tat	aag	aac	ttt	gcc	act	tct	4752
Thr	Leu	Lys	Ser	Asp	Thr	Asn	Gly	Lys	Tyr	Lys	Asn	Phe	Ala	Thr	Ser	
	1570					1575					1580					
aac	aag	atg	gat	atg	acc	ttc	tct	aag	caa	aat	gca	ctg	ctg	cgt	tct	4800
Asn	Lys	Met	Asp	Met	Thr	Phe	Ser	Lys	Gln	Asn	Ala	Leu	Leu	Arg	Ser	
1585					1590					1595					1600	
gaa	tat	cag	gct	gat	tac	gag	tca	ttg	agg	ttc	ttc	agc	ctg	ctt	tct	4848
Glu	Tyr	Gln	Ala	Asp	Tyr	Glu	Ser	Leu	Arg	Phe	Phe	Ser	Leu	Leu	Ser	
			1605					1610						1615		
gga	tca	cta	aat	tcc	cat	ggg	ctt	gag	tta	aat	gct	gac	atc	tta	ggc	4896
Gly	Ser	Leu	Asn	Ser	His	Gly	Leu	Glu	Leu	Asn	Ala	Asp	Ile	Leu	Gly	
			1620				1625						1630			
act	gac	aaa	att	aat	agt	ggg	gct	cac	aag	gcg	aca	cta	agg	att	ggc	4944
Thr	Asp	Lys	Ile	Asn	Ser	Gly	Ala	His	Lys	Ala	Thr	Leu	Arg	Ile	Gly	
		1635				1640						1645				
caa	gat	gga	ata	tct	acc	agt	gca	acg	acc	aac	ttg	aag	tgt	agt	ctc	4992
Gln	Asp	Gly	Ile	Ser	Thr	Ser	Ala	Thr	Thr	Asn	Leu	Lys	Cys	Ser	Leu	
	1650					1655					1660					
ctg	gtg	ctg	gag	aat	gag	ctg	aat	gca	gag	ctt	ggc	ctc	tct	ggg	gca	5040
Leu	Val	Leu	Glu	Asn	Glu	Leu	Asn	Ala	Glu	Leu	Gly	Leu	Ser	Gly	Ala	
1665					1670					1675				1680		
tct	atg	aaa	tta	aca	aca	aat	ggc	cgc	ttc	agg	gaa	cac	aat	gca	aaa	5088
Ser	Met	Lys	Leu	Thr	Thr	Asn	Gly	Arg	Phe	Arg	Glu	His	Asn	Ala	Lys	
				1685					1690					1695		
ttc	agt	ctg	gat	ggg	aaa	gcc	gcc	ctc	aca	gag	cta	tca	ctg	gga	agt	5136
Phe	Ser	Leu	Asp	Gly	Lys	Ala	Ala	Leu	Thr	Glu	Leu	Ser	Leu	Gly	Ser	
			1700					1705					1710			
gct	tat	cag	gcc	atg	att	ctg	ggg	gtc	gac	agc	aaa	aac	att	ttc	aac	5184
Ala	Tyr	Gln	Ala	Met	Ile	Leu	Gly	Val	Asp	Ser	Lys	Asn	Ile	Phe	Asn	
		1715					1720					1725				
ttc	aag	gtc	agt	caa	gaa	gga	ctt	aag	ctc	tca	aat	gac	atg	atg	ggc	5232
Phe	Lys	Val	Ser	Gln	Glu	Gly	Leu	Lys	Leu	Ser	Asn	Asp	Met	Met	Gly	
	1730					1735					1740					
tca	tat	gct	gaa	atg	aaa	ttt	gac	cac	aca	aac	agt	ctg	aac	att	gca	5280
Ser	Tyr	Ala	Glu	Met	Lys	Phe	Asp	His	Thr	Asn	Ser	Leu	Asn	Ile	Ala	
1745					1750					1755					1760	
ggc	tta	tca	ctg	gac	ttc	tct	tca	aaa	ctt	gac	aac	att	tac	agc	tct	5328
Gly	Leu	Ser	Leu	Asp	Phe	Ser	Ser	Lys	Leu	Asp	Asn	Ile	Tyr	Ser	Ser	
			1765						1770				1775			
gac	aag	ttt	tat	aag	caa	act	gtt	aat	tta	cag	cta	cag	ccc	tat	tct	5376
Asp	Lys	Phe	Tyr	Lys	Gln	Thr	Val	Asn	Leu	Gln	Leu	Gln	Pro	Tyr	Ser	

DOC0216USSEQ2.txt  
1785

1780	1785	1790	
ctg gta act act tta aac agt gac ctg aaa tac aat gct ctg gat ctc Leu Val Thr Thr Leu Asn Ser Asp Leu Lys Tyr Asn Ala Leu Asp Leu 1795 1800 1805			5424
acc aac aat ggg aaa cta cgg cta gaa ccc ctg aag ctg cat gtg gct Thr Asn Asn Gly Lys Leu Arg Leu Glu Pro Leu Lys Leu His Val Ala 1810 1815 1820			5472
ggt aac cta aaa gga gcc tac caa aat aat gaa ata aaa cac atc tat Gly Asn Leu Lys Gly Ala Tyr Gln Asn Asn Glu Ile Lys His Ile Tyr 1825 1830 1835 1840			5520
gcc atc tct tct gct gcc tta tca gca agc tat aaa gca gac act gtt Ala Ile Ser Ser Ala Ala Leu Ser Ala Ser Tyr Lys Ala Asp Thr Val 1845 1850 1855			5568
gct aag gtt cag ggt gtg gag ttt agc cat ggg ctc aac aca gac atc Ala Lys Val Gln Gly Val Glu Phe Ser His Gly Leu Asn Thr Asp Ile 1860 1865 1870			5616
gct ggg ctg gct tca gcc att gac atg agc aca aac tat aat tca gac Ala Gly Leu Ala Ser Ala Ile Asp Met Ser Thr Asn Tyr Asn Ser Asp 1875 1880 1885			5664
tca ctg cat ttc agc aat gtc ttc cgt tct gta atg gcc ccg ttt acc Ser Leu His Phe Ser Asn Val Phe Arg Ser Val Met Ala Pro Phe Thr 1890 1895 1900			5712
atg acc atc gat gca cat aca aat ggc aat ggg aaa ctc gct ctc tgg Met Thr Ile Asp Ala His Thr Asn Gly Asn Gly Lys Leu Ala Leu Trp 1905 1910 1915 1920			5760
gga gaa cat act ggg cag ctg tat agc aaa ttc ctg ttg aaa gca gaa Gly Glu His Thr Gly Gln Leu Tyr Ser Lys Phe Leu Leu Lys Ala Glu 1925 1930 1935			5808
cct ctg gca ttt act ttc tct cat gat tac aaa ggc tcc aca agt cat Pro Leu Ala Phe Thr Phe Ser His Asp Tyr Lys Gly Ser Thr Ser His 1940 1945 1950			5856
cat ctc gtg tct agg aaa agc atc agt gca gct ctt gaa cac aaa gtc His Leu Val Ser Arg Lys Ser Ile Ser Ala Ala Leu Glu His Lys Val 1955 1960 1965			5904
agt gcc ctg ctt act cca gct gag cag aca ggc acc tgg aaa ctc aag Ser Ala Leu Leu Thr Pro Ala Glu Gln Thr Gly Thr Trp Lys Leu Lys 1970 1975 1980			5952
acc caa ttt aac aac aat gaa tac agc cag gac ttg gat gct tac aac Thr Gln Phe Asn Asn Asn Glu Tyr Ser Gln Asp Leu Asp Ala Tyr Asn 1985 1990 1995 2000			6000
act aaa gat aaa att ggc gtg gag ctt act gga cga act ctg gct gac Thr Lys Asp Lys Ile Gly Val Glu Leu Thr Gly Arg Thr Leu Ala Asp 2005 2010 2015			6048
cta act cta cta gac tcc cca att aaa gtg cca ctt tta ctc agt gag Leu Thr Leu Asp Ser Pro Ile Lys Val Pro Leu Leu Ser Glu 2020 2025 2030			6096
ccc atc aat atc aat gat gct tta gag atg aga gat gcc gtt gag aag Pro Ile Asn Ile Asn Asp Ala Leu Glu Met Arg Asp Ala Val Glu Lys 2035 2040 2045			6144

## DOC0216USSEQ2.txt

ccc Pro 2050	caa Gln 2050	gaa Glu 2050	ttt Phe 2050	aca Thr 2050	att Ile 2055	gtt Val 2055	gct Ala 2055	ttt Phe 2060	gta Val 2060	aag Lys 2060	tat Tyr 2060	gat Asp 2060	aaa Lys 2060	aac Asn 2060	caa Gln 2060	6192
gat Asp 2065	gtt Val 2065	cac His 2065	tcc Ser 2065	att Ile 2070	aac Asn 2070	ctc Leu 2070	cca Pro 2070	ttt Phe 2075	ttt Phe 2075	gag Glu 2075	acc Thr 2075	ttg Leu 2075	caa Gln 2080	gaa Glu 2080	tat Tyr 2080	6240
ttt Phe 2085	gag Glu 2085	agg Arg 2085	aat Asn 2085	cga Arg 2085	caa Gln 2085	acc Thr 2085	att Ile 2090	ata Ile 2090	gtt Val 2090	gta Val 2090	ctg Leu 2090	gaa Glu 2095	aac Asn 2095	gta Val 2095	cag Gln 2095	6288
aga Arg 2100	aac Asn 2100	ctg Leu 2100	aag Lys 2100	cac His 2100	atc Ile 2100	aat Asn 2105	att Ile 2105	gat Asp 2105	caa Gln 2105	ttt Phe 2110	gta Val 2110	aga Arg 2110	aaa Lys 2110	tac Tyr 2110	aga Arg 2110	6336
gca Ala 2115	gcc Ala 2115	ctg Leu 2115	gga Gly 2115	aaa Lys 2115	ctc Leu 2120	cca Pro 2120	cag Gln 2120	caa Gln 2120	gct Ala 2125	aat Asn 2125	gat Asp 2125	tat Tyr 2125	ctg Leu 2125	aat Asn 2125	tca Ser 2125	6384
ttc Phe 2130	aat Asn 2130	tgg Trp 2130	gag Glu 2135	aga Arg 2135	caa Gln 2135	gtt Val 2135	tca Ser 2135	cat His 2140	gcc Ala 2140	aag Lys 2140	gag Glu 2140	aaa Lys 2140	ctg Leu 2140	act Thr 2140	gct Ala 2140	6432
ctc Leu 2145	aca Thr 2145	aaa Lys 2145	aag Lys 2145	tat Tyr 2150	aga Arg 2150	att Ile 2150	aca Thr 2150	gaa Glu 2155	aat Asn 2155	gat Asp 2155	ata Ile 2155	caa Gln 2155	att Ile 2155	gca Ala 2160	tta Leu 2160	6480
gat Asp 2165	gat Asp 2165	gcc Ala 2165	aaa Lys 2165	atc Ile 2165	aac Asn 2165	ttt Phe 2170	aat Asn 2170	gaa Glu 2170	aaa Lys 2170	cta Leu 2175	tct Ser 2175	caa Gln 2175	ctg Leu 2175	cag Gln 2175	aca Thr 2175	6528
tat Tyr 2180	atg Met 2180	ata Ile 2180	caa Gln 2180	ttt Phe 2180	gat Asp 2185	cag Gln 2185	tat Tyr 2185	att Ile 2185	aaa Lys 2185	gat Asp 2190	agt Ser 2190	tat Tyr 2190	gat Asp 2190	tta Leu 2190	cat His 2190	6576
gat Asp 2195	ttg Leu 2195	aaa Lys 2195	ata Ile 2200	gct Ala 2200	att Ile 2200	gct Ala 2200	aat Asn 2200	att Ile 2205	att Ile 2205	gat Asp 2205	gaa Glu 2205	atc Ile 2205	att Ile 2205	gaa Glu 2205	aaa Lys 2205	6624
tta Leu 2210	aaa Lys 2210	agt Ser 2210	ctt Leu 2210	gat Asp 2215	gag Glu 2215	cac His 2215	tat Tyr 2215	cat His 2220	acc Thr 2220	cgt Arg 2220	gta Val 2220	aat Asn 2220	tta Leu 2220	gta Val 2220	aaa Lys 2220	6672
aca Thr 2225	atc Ile 2225	cat His 2225	gat Asp 2230	cta Leu 2230	cat His 2230	ttg Leu 2230	ttt Phe 2235	att Ile 2235	gaa Glu 2235	aat Asn 2235	att Ile 2235	gat Asp 2240	ttt Phe 2240	aac Asn 2240	aaa Lys 2240	6720
agt Ser 2245	gga Gly 2245	agt Ser 2245	agt Ser 2245	act Thr 2245	gca Ala 2245	tcc Ser 2250	tgg Trp 2250	att Ile 2250	caa Gln 2250	aat Asn 2250	gtg Val 2255	gat Asp 2255	act Thr 2255	aag Lys 2255	tac Tyr 2255	6768
caa Gln 2260	atc Ile 2260	aga Arg 2260	atc Ile 2260	cag Gln 2260	ata Ile 2265	caa Gln 2265	gaa Glu 2265	aaa Lys 2265	ctg Leu 2265	cag Gln 2270	cag Gln 2270	ctt Leu 2270	aag Lys 2270	aga Arg 2270	cac His 2270	6816
ata Ile 2275	cag Gln 2275	aat Asn 2275	ata Ile 2280	gac Asp 2280	atc Ile 2280	cag Gln 2280	cac His 2280	cta Leu 2285	gct Ala 2285	gga Gly 2285	aag Lys 2285	tta Leu 2285	aaa Lys 2285	caa Gln 2285	cac His 2285	6864
att Ile 2290	gag Glu 2290	gct Ala 2290	att Ile 2295	gat Asp 2295	gtt Val 2295	aga Arg 2295	gtg Val 2295	ctt Leu 2300	tta Leu 2300	gat Asp 2300	caa Gln 2300	ttg Leu 2300	gga Gly 2300	act Thr 2300	aca Thr 2300	6912
att Ile 2300	tca Ser 2300	ttt Phe 2300	gaa Glu 2300	aga Arg 2300	ata Ile 2300	aat Asn 2300	gat Asp 2300	gtt Val 2300	ctt Leu 2300	gag Glu 2300	cat His 2300	gtc Val 2300	aaa Lys 2300	cac His 2300	ttt Phe 2300	6960



DOC0216USSEQ2.txt

2305	2310	2315	2320	
gtt ata aat ctt att ggg gat ttt gaa gta gct gag aaa atc aat gcc Val Ile Asn Leu Ile Gly Asp Phe Glu Val Ala Glu Lys Ile Asn Ala 2325 2330 2335				7008
ttc aga gcc aaa gtc cat gag tta atc gag agg tat gaa gta gac caa Phe Arg Ala Lys Val His Glu Leu Ile Glu Arg Tyr Glu Val Asp Gln 2340 2345 2350				7056
caa atc cag gtt tta atg gat aaa tta gta gag ttg gcc cac caa tac Gln Ile Gln Val Leu Met Asp Lys Leu Val Glu Leu Ala His Gln Tyr 2355 2360 2365				7104
aag ttg aag gag act att cag aag cta agc aat gtc cta caa caa gtt Lys Leu Lys Glu Thr Ile Gln Lys Leu Ser Asn Val Leu Gln Gln Val 2370 2375 2380				7152
aag ata aaa gat tac ttt gag aaa ttg gtt gga ttt att gat gat gct Lys Ile Lys Asp Tyr Phe Glu Lys Leu Val Gly Phe Ile Asp Asp Ala 2385 2390 2395 2400				7200
gtc aag aag ctt aat gaa tta tct ttt aaa aca ttc att gaa gat gtt Val Lys Lys Leu Asn Glu Leu Ser Phe Lys Thr Phe Ile Glu Asp Val 2405 2410 2415				7248
aac aaa ttc ctt gac atg ttg ata aag aaa tta aag tca ttt gat tac Asn Lys Phe Leu Asp Met Leu Ile Lys Lys Leu Lys Ser Phe Asp Tyr 2420 2425 2430				7296
cac cag ttt gta gat gaa acc aat gac aaa atc cgt gag gtg act cag His Gln Phe Val Asp Glu Thr Asn Asp Lys Ile Arg Glu Val Thr Gln 2435 2440 2445				7344
aga ctc aat ggt gaa att cag gct ctg gaa cta cca caa aaa gct gaa Arg Leu Asn Gly Glu Ile Gln Ala Leu Glu Leu Pro Gln Lys Ala Glu 2450 2455 2460				7392
gca tta aaa ctg ttt tta gag gaa acc aag gcc aca gtt gca gtg tat Ala Leu Lys Leu Phe Leu Glu Glu Thr Lys Ala Thr Val Ala Val Tyr 2465 2470 2475 2480				7440
ctg gaa agc cta cag gac acc aaa ata acc tta atc atc aat tgg tta Leu Glu Ser Leu Gln Asp Thr Lys Ile Thr Leu Ile Ile Asn Trp Leu 2485 2490 2495				7488
cag gag gct tta agt tca gca tct ttg gct cac atg aag gcc aaa ttc Gln Glu Ala Leu Ser Ser Ala Ser Leu Ala His Met Lys Ala Lys Phe 2500 2505 2510				7536
cga gag act cta gaa gat aca cga gac cga atg tat caa atg gac att Arg Glu Thr Leu Glu Asp Thr Arg Asp Arg Met Tyr Gln Met Asp Ile 2515 2520 2525				7584
cag cag gaa ctt caa cga tac ctg tct ctg gta ggc cag gtt tat agc Gln Gln Glu Leu Gln Arg Tyr Leu Ser Leu Val Gly Gln Val Tyr Ser 2530 2535 2540				7632
aca ctt gtc acc tac att tct gat tgg tgg act ctt gct gct aag aac Thr Leu Val Thr Tyr Ile Ser Asp Trp Trp Thr Leu Ala Ala Lys Asn 2545 2550 2555 2560				7680
ctt act gac ttt gca gag caa tat tct atc caa gat tgg gct aaa cgt Leu Thr Asp Phe Ala Glu Gln Tyr Ser Ile Gln Asp Trp Ala Lys Arg 2565 2570 2575				7728

## DOC0216USSEQ2.txt

atg	aaa	gca	ttg	gta	gag	caa	ggg	ttc	act	gtt	cct	gaa	atc	aag	acc	7776
Met	Lys	Ala	Leu	Val	Glu	Gln	Gly	Phe	Thr	Val	Pro	Glu	Ile	Lys	Thr	
		2580						2585					2590			
atc	ctt	ggg	acc	atg	cct	gcc	ttt	gaa	gtc	agt	ctt	cag	gct	ctt	cag	7824
Ile	Leu	Gly	Thr	Met	Pro	Ala	Phe	Glu	Val	Ser	Leu	Gln	Ala	Leu	Gln	
		2595					2600					2605				
aaa	gct	acc	ttc	cag	aca	cct	gat	ttt	ata	gtc	ccc	cta	aca	gat	ttg	7872
Lys	Ala	Thr	Phe	Gln	Thr	Pro	Asp	Phe	Ile	Val	Pro	Leu	Thr	Asp	Leu	
	2610					2615					2620					
agg	att	cca	tca	gtt	cag	ata	aac	ttc	aaa	gac	tta	aaa	aat	ata	aaa	7920
Arg	Ile	Pro	Ser	Val	Gln	Ile	Asn	Phe	Lys	Asp	Leu	Lys	Asn	Ile	Lys	
2625					2630					2635					2640	
atc	cca	tcc	agg	ttt	tcc	aca	cca	gaa	ttt	acc	atc	ctt	aac	acc	ttc	7968
Ile	Pro	Ser	Arg	Phe	Ser	Thr	Pro	Glu	Phe	Thr	Ile	Leu	Asn	Thr	Phe	
				2645					2650					2655		
cac	att	cct	tcc	ttt	aca	att	gac	ttt	gta	gaa	atg	aaa	gta	aag	atc	8016
His	Ile	Pro	Ser	Phe	Thr	Ile	Asp	Phe	Val	Glu	Met	Lys	Val	Lys	Ile	
			2660					2665					2670			
atc	aga	acc	att	gac	cag	atg	ctg	aac	agt	gag	ctg	cag	tgg	ccc	gtt	8064
Ile	Arg	Thr	Ile	Asp	Gln	Met	Leu	Asn	Ser	Glu	Leu	Gln	Trp	Pro	Val	
		2675					2680					2685				
cca	gat	ata	tat	ctc	agg	gat	ctg	aag	gtg	gag	gac	att	cct	cta	gcg	8112
Pro	Asp	Ile	Tyr	Leu	Arg	Asp	Leu	Lys	Val	Glu	Asp	Ile	Pro	Leu	Ala	
	2690					2695					2700					
aga	atc	acc	ctg	cca	gac	ttc	cgt	tta	cca	gaa	atc	gca	att	cca	gaa	8160
Arg	Ile	Thr	Leu	Pro	Asp	Phe	Arg	Leu	Pro	Glu	Ile	Ala	Ile	Pro	Glu	
2705					2710					2715					2720	
ttc	ata	atc	cca	act	ctc	aac	ctt	aat	gat	ttt	caa	gtt	cct	gac	ctt	8208
Phe	Ile	Ile	Pro	Thr	Leu	Asn	Leu	Asn	Asp	Phe	Gln	Val	Pro	Asp	Leu	
				2725					2730					2735		
cac	ata	cca	gaa	ttc	cag	ctt	ccc	cac	atc	tca	cac	aca	att	gaa	gta	8256
His	Ile	Pro	Glu	Phe	Gln	Leu	Pro	His	Ile	Ser	His	Thr	Ile	Glu	Val	
			2740					2745					2750			
cct	act	ttt	ggc	aag	cta	tac	agt	att	ctg	aaa	atc	caa	tct	cct	ctt	8304
Pro	Thr	Phe	Gly	Lys	Leu	Tyr	Ser	Ile	Leu	Lys	Ile	Gln	Ser	Pro	Leu	
		2755					2760					2765				
ttc	aca	tta	gat	gca	aat	gct	gac	ata	ggg	aat	gga	acc	acc	tca	gca	8352
Phe	Thr	Leu	Asp	Ala	Asn	Ala	Asp	Ile	Gly	Asn	Gly	Thr	Thr	Ser	Ala	
	2770				2775						2780					
aac	gaa	gca	ggt	atc	gca	gct	tcc	atc	act	gcc	aaa	gga	gag	tcc	aaa	8400
Asn	Glu	Ala	Gly	Ile	Ala	Ala	Ser	Ile	Thr	Ala	Lys	Gly	Glu	Ser	Lys	
2785					2790					2795					2800	
tta	gaa	gtt	ctc	aat	ttt	gat	ttt	caa	gca	aat	gca	caa	ctc	tca	aac	8448
Leu	Glu	Val	Leu	Asn	Phe	Asp	Phe	Gln	Ala	Asn	Ala	Gln	Leu	Ser	Asn	
				2805				2810					2815			
cct	aag	att	aat	ccg	ctg	gct	ctg	aag	gag	tca	gtg	aag	ttc	tcc	agc	8496
Pro	Lys	Ile	Asn	Pro	Leu	Ala	Leu	Lys	Glu	Ser	Val	Lys	Phe	Ser	Ser	
			2820					2825					2830			
aag	tac	ctg	aga	acg	gag	cat	ggg	agt	gaa	atg	ctg	ttt	ttt	gga	aat	8544
Lys	Tyr	Leu	Arg	Thr	Glu	His	Gly	Ser	Glu	Met	Leu	Phe	Phe	Gly	Asn	

## DOC0216USSEQ2.txt

2835	2840	2845	
gct att gag gga aaa tca aac aca gtg gca agt tta cac aca gaa aaa Ala Ile Glu Gly Lys Ser Asn Thr Val Ala Ser Leu His Thr Glu Lys 2850 2855 2860			8592
aat aca ctg gag ctt agt aat gga gtg att gtc aag ata aac aat cag Asn Thr Leu Glu Leu Ser Asn Gly Val Ile Val Lys Ile Asn Asn Gln 2865 2870 2875 2880			8640
ctt acc ctg gat agc aac act aaa tac ttc cac aaa ttg aac atc ccc Leu Thr Leu Asp Ser Asn Thr Lys Tyr Phe His Lys Leu Asn Ile Pro 2885 2890 2895			8688
aaa ctg gac ttc tct agt cag gct gac ctg cgc aac gag atc aag aca Lys Leu Asp Phe Ser Ser Gln Ala Asp Leu Arg Asn Glu Ile Lys Thr 2900 2905 2910			8736
ctg ttg aaa gct ggc cac ata gca tgg act tct tct gga aaa ggg tca Leu Leu Lys Ala Gly His Ile Ala Trp Thr Ser Ser Gly Lys Gly Ser 2915 2920 2925			8784
tgg aaa tgg gcc tcg ccc aga ttc tca gat gag gga aca cat gaa tca Trp Lys Trp Ala Ser Pro Arg Phe Ser Asp Glu Gly Thr His Glu Ser 2930 2935 2940			8832
caa att agt ttc acc ata gaa gga ccc ctc act tcc ttt gga ctg tcc Gln Ile Ser Phe Thr Ile Glu Gly Pro Leu Thr Ser Phe Gly Leu Ser 2945 2950 2955 2960			8880
aat aag atc aat agc aaa cac cta aga gta aac caa aac ttg gtt tat Asn Lys Ile Asn Ser Lys His Leu Arg Val Asn Gln Asn Leu Val Tyr 2965 2970 2975			8928
gaa tct ggc tcc ctc aac ttt tct aaa ctt gaa att caa tca caa gtc Glu Ser Gly Ser Leu Asn Phe Ser Lys Leu Glu Ile Gln Ser Gln Val 2980 2985 2990			8976
gat tcc cag cat gtg ggc cac agt gtt cta act gct aaa ggc atg gca Asp Ser Gln His Val Gly His Ser Val Leu Thr Ala Lys Gly Met Ala 2995 3000 3005			9024
ctg ttt gga gaa ggg aag gca gag ttt act ggg agg cat gat gct cat Leu Phe Gly Glu Gly Lys Ala Glu Phe Thr Gly Arg His Asp Ala His 3010 3015 3020			9072
tta aat gga aag gtt att gga act ttg aaa aat tct ctt ttc ttt tca Leu Asn Gly Lys Val Ile Gly Thr Leu Lys Asn Ser Leu Phe Phe Ser 3025 3030 3035 3040			9120
gcc cag cca ttt gag atc acg gca tcc aca aac aat gaa ggg aat ttg Ala Gln Pro Phe Glu Ile Thr Ala Ser Thr Asn Asn Glu Gly Asn Leu 3045 3050 3055			9168
aaa gtt cgt ttt cca tta agg tta aca ggg aag ata gac ttc ctg aat Lys Val Arg Phe Pro Leu Arg Leu Thr Gly Lys Ile Asp Phe Leu Asn 3060 3065 3070			9216
aac tat gca ctg ttt ctg agt ccc agt gcc cag caa gca agt tgg caa Asn Tyr Ala Leu Phe Leu Ser Pro Ser Ala Gln Gln Ala Ser Trp Gln 3075 3080 3085			9264
gta agt gct agg ttc aat cag tat aag tac aac caa aat ttc tct gct Val Ser Ala Arg Phe Asn Gln Tyr Lys Tyr Asn Gln Asn Phe Ser Ala 3090 3095 3100			9312

## DOC0216USSEQ2.txt

gga aac aac gag aac att atg gag gcc cat gta gga ata aat gga gaa Gly Asn Asn Glu Asn Ile Met Glu Ala His Val Gly Ile Asn Gly Glu 3105 3110 3115 3120	9360
gca aat ctg gat ttc tta aac att cct tta aca att cct gaa atg cgt Ala Asn Leu Asp Phe Leu Asn Ile Pro Leu Thr Ile Pro Glu Met Arg 3125 3130 3135	9408
cta cct tac aca ata atc aca act cct cca ctg aaa gat ttc tct cta Leu Pro Tyr Thr Ile Ile Thr Thr Pro Pro Leu Lys Asp Phe Ser Leu 3140 3145 3150	9456
tgg gaa aaa aca ggc ttg aag gaa ttc ttg aaa acg aca aag caa tca Trp Glu Lys Thr Gly Leu Lys Glu Phe Leu Lys Thr Thr Lys Gln Ser 3155 3160 3165	9504
ttt gat tta agt gta aaa gct cag tat aag aaa aac aaa cac agg cat Phe Asp Leu Ser Val Lys Ala Gln Tyr Lys Lys Asn Lys His Arg His 3170 3175 3180	9552
tcc atc aca aat cct ttg gct gtg ctt tgt gag ttt atc agt cag agc Ser Ile Thr Asn Pro Leu Ala Val Leu Cys Glu Phe Ile Ser Gln Ser 3185 3190 3195 3200	9600
atc aaa tcc ttt gac agg cat ttt gaa aaa aac aga aac aat gca tta Ile Lys Ser Phe Asp Arg His Phe Glu Lys Asn Arg Asn Asn Ala Leu 3205 3210 3215	9648
gat ttt gtc acc aaa tcc tat aat gaa aca aaa att aag ttt gat aag Asp Phe Val Thr Lys Ser Tyr Asn Glu Thr Lys Ile Lys Phe Asp Lys 3220 3225 3230	9696
tac aaa gct gaa aaa tct cac gac gag ctc ccc agg acc ttt caa att Tyr Lys Ala Glu Lys Ser His Asp Glu Leu Pro Arg Thr Phe Gln Ile 3235 3240 3245	9744
cct gga tac act gtt cca gtt gtc aat gtt gaa gtg tct cca ttc acc Pro Gly Tyr Thr Val Pro Val Val Asn Val Glu Val Ser Pro Phe Thr 3250 3255 3260	9792
ata gag atg tcg gca ttc ggc tat gtg ttc cca aaa gca gtc agc atg Ile Glu Met Ser Ala Phe Gly Tyr Val Phe Pro Lys Ala Val Ser Met 3265 3270 3275 3280	9840
cct agt ttc tcc atc ata ggt tct gac gtc cgt gtg cct tca tac aca Pro Ser Phe Ser Ile Ile Gly Ser Asp Val Arg Val Pro Ser Tyr Thr 3285 3290 3295	9888
tta atc ctg cca tca tta gag ctg cca gtc ctt cat gtc cct aga aat Leu Ile Leu Pro Ser Leu Glu Leu Pro Val Leu His Val Pro Arg Asn 3300 3305 3310	9936
ctc aag ctt tct ctt cca gat ttc aag gaa ttg tgt acc ata agc cat Leu Lys Leu Ser Leu Pro Asp Phe Lys Glu Leu Cys Thr Ile Ser His 3315 3320 3325	9984
att ttt att cct gcc atg ggc aat att acc tat gat ttc tcc ttt aaa Ile Phe Ile Pro Ala Met Gly Asn Ile Thr Tyr Asp Phe Ser Phe Lys 3330 3335 3340	10032
tca agt gtc atc aca ctg aat acc aat gct gaa ctt ttt aac cag tca Ser Ser Val Ile Thr Leu Asn Thr Asn Ala Glu Leu Phe Asn Gln Ser 3345 3350 3355 3360	10080

## DOC0216USSEQ2.txt

gat att gtt gct cat ctc ctt tct tca tct tca tct gtc att gat gca	10128
Asp Ile Val Ala His Leu Leu Ser Ser Ser Ser Ser Val Ile Asp Ala	
3365 3370 3375	
ctg cag tac aaa tta gag ggc acc aca aga ttg aca aga aaa agg gga	10176
Leu Gln Tyr Lys Leu Glu Gly Thr Thr Arg Leu Thr Arg Lys Arg Gly	
3380 3385 3390	
ttg aag tta gcc aca gct ctg tct ctg agc aac aaa ttt gtg gag ggt	10224
Leu Lys Leu Ala Thr Ala Leu Ser Leu Ser Asn Lys Phe Val Glu Gly	
3395 3400 3405	
agt cat aac agt act gtg agc tta acc acg aaa aat atg gaa gtg tca	10272
Ser His Asn Ser Thr Val Ser Leu Thr Thr Lys Asn Met Glu Val Ser	
3410 3415 3420	
gtg gca aaa acc aca aaa ccg gaa att cca att ttg aga atg aat ttc	10320
Val Ala Lys Thr Thr Lys Pro Glu Ile Pro Ile Leu Arg Met Asn Phe	
3425 3430 3435 3440	
aag caa gaa ctt aat gga aat acc aag tca aaa cct act gtc tct tcc	10368
Lys Gln Glu Leu Asn Gly Asn Thr Lys Ser Lys Pro Thr Val Ser Ser	
3445 3450 3455	
tcc atg gaa ttt aag tat gat ttc aat tct tca atg ctg tac tct acc	10416
Ser Met Glu Phe Lys Tyr Asp Phe Asn Ser Ser Met Leu Tyr Ser Thr	
3460 3465 3470	
gct aaa gga gca gtt gac cac aag ctt agc ttg gaa agc ctc acc tct	10464
Ala Lys Gly Ala Val Asp His Lys Leu Ser Leu Glu Ser Leu Thr Ser	
3475 3480 3485	
tac ttt tcc att gag tca tct acc aaa gga gat gtc aag ggt tcg gtt	10512
Tyr Phe Ser Ile Glu Ser Ser Thr Lys Gly Asp Val Lys Gly Ser Val	
3490 3495 3500	
ctt tct cgg gaa tat tca gga act att gct agt gag gcc aac act tac	10560
Leu Ser Arg Glu Tyr Ser Gly Thr Ile Ala Ser Glu Ala Asn Thr Tyr	
3505 3510 3515 3520	
ttg aat tcc aag agc aca cgg tct tca gtg aag ctg cag ggc act tcc	10608
Leu Asn Ser Lys Ser Thr Arg Ser Ser Val Lys Leu Gln Gly Thr Ser	
3525 3530 3535	
aaa att gat gat atc tgg aac ctt gaa gta aaa gaa aat ttt gct gga	10656
Lys Ile Asp Asp Ile Trp Asn Leu Glu Val Lys Glu Asn Phe Ala Gly	
3540 3545 3550	
gaa gcc aca ctc caa cgc ata tat tcc ctc tgg gag cac agt acg aaa	10704
Glu Ala Thr Leu Gln Arg Ile Tyr Ser Leu Trp Glu His Ser Thr Lys	
3555 3560 3565	
aac cac tta cag cta gag ggc ctc ttt ttc acc aac gga gaa cat aca	10752
Asn His Leu Gln Leu Glu Gly Leu Phe Phe Thr Asn Gly Glu His Thr	
3570 3575 3580	
agc aaa gcc acc ctg gaa ctc tct cca tgg caa atg tca gct ctt gtt	10800
Ser Lys Ala Thr Leu Glu Leu Ser Pro Trp Gln Met Ser Ala Leu Val	
3585 3590 3595 3600	
cag gtc cat gca agt cag ccc agt tcc ttc cat gat ttc cct gac ctt	10848
Gln Val His Ala Ser Gln Pro Ser Ser Phe His Asp Phe Pro Asp Leu	
3605 3610 3615	
ggc cag gaa gtg gcc ctg aat gct aac act aag aac cag aag atc aga	10896
Gly Gln Glu Val Ala Leu Asn Ala Asn Thr Lys Asn Gln Lys Ile Arg	
3620 3625 3630	

## DOC0216USSEQ2.txt

tgg aaa aat gaa gtc cgg att cat tct ggg tct ttc cag agc cag gtc Trp Lys Asn Glu Val Arg Ile His Ser Gly Ser Phe Gln Ser Gln Val 3635 3640 3645	10944
gag ctt tcc aat gac caa gaa aag gca cac ctt gac att gca gga tcc Glu Leu Ser Asn Asp Gln Glu Lys Ala His Leu Asp Ile Ala Gly Ser 3650 3655 3660	10992
tta gaa gga cac cta agg ttc ctc aaa aat atc atc cta cca gtc tat Leu Glu Gly His Leu Arg Phe Leu Lys Asn Ile Ile Leu Pro Val Tyr 3665 3670 3675 3680	11040
gac aag agc tta tgg gat ttc cta aag ctg gat gtc acc acc agc att Asp Lys Ser Leu Trp Asp Phe Leu Lys Leu Asp Val Thr Thr Ser Ile 3685 3690 3695	11088
ggt agg aga cag cat ctt cgt gtt tca act gcc ttt gtg tac acc aaa Gly Arg Arg Gln His Leu Arg Val Ser Thr Ala Phe Val Tyr Thr Lys 3700 3705 3710	11136
aac ccc aat ggc tat tca ttc tcc atc cct gta aaa gtt ttg gct gat Asn Pro Asn Gly Tyr Ser Phe Ser Ile Pro Val Lys Val Leu Ala Asp 3715 3720 3725	11184
aaa ttc att att cct ggg ctg aaa cta aat gat cta aat tca gtt ctt Lys Phe Ile Ile Pro Gly Leu Lys Leu Asn Asp Leu Asn Ser Val Leu 3730 3735 3740	11232
gtc atg cct acg ttc cat gtc cca ttt aca gat ctt cag gtt cca tcg Val Met Pro Thr Phe His Val Pro Phe Thr Asp Leu Gln Val Pro Ser 3745 3750 3755 3760	11280
tgc aaa ctt gac ttc aga gaa ata caa atc tat aag aag ctg aga act Cys Lys Leu Asp Phe Arg Glu Ile Gln Ile Tyr Lys Lys Leu Arg Thr 3765 3770 3775	11328
tca tca ttt gcc ctc acc cta cca aca ctc ccc gag gta aaa ttc cct Ser Ser Phe Ala Leu Thr Leu Pro Thr Leu Pro Glu Val Lys Phe Pro 3780 3785 3790	11376
gaa gtt gat gtg tta aca aaa tat tct caa cca gaa gac tcc ttg att Glu Val Asp Val Leu Thr Lys Tyr Ser Gln Pro Glu Asp Ser Leu Ile 3795 3800 3805	11424
ccc ttt ttt gag ata acc gtg cct gaa tct cag tta act gtg tcc cag Pro Phe Phe Glu Ile Thr Val Pro Glu Ser Gln Leu Thr Val Ser Gln 3810 3815 3820	11472
ttc acg ctt cca aaa agt gtt tca gat ggc att gct gct ttg gat cta Phe Thr Leu Pro Lys Ser Val Ser Asp Gly Ile Ala Ala Leu Asp Leu 3825 3830 3835 3840	11520
aat gca gta gcc aac aag atc gca gac ttt gag ttg ccc acc atc atc Asn Ala Val Ala Asn Lys Ile Ala Asp Phe Glu Leu Pro Thr Ile Ile 3845 3850 3855	11568
gtg cct gag cag acc att gag att ccc tcc att aag ttc tct gta cct Val Pro Glu Gln Thr Ile Glu Ile Pro Ser Ile Lys Phe Ser Val Pro 3860 3865 3870	11616
gct gga att gtc att cct tcc ttt caa gca ctg act gca cgc ttt gag Ala Gly Ile Val Ile Pro Ser Phe Gln Ala Leu Thr Ala Arg Phe Glu 3875 3880 3885	11664

## DOC0216USSEQ2.txt

gta gac tct ccc gtg tat aat gcc Val Asp Ser Pro Val Tyr Asn Ala	act tgg agt gcc agt ttg aaa aac Thr Trp Ser Ala Ser Leu Lys Asn	11712
3890	3895 3900	
aaa gca gat tat gtt gaa aca gtc ctg gat tcc aca tgc agc tca acc Lys Ala Asp Tyr Val Glu Thr Val Leu Asp Ser Thr Cys Ser Ser Thr	11760	
3905	3910 3915 3920	
gta cag ttc cta gaa tat gaa cta aat gtt ttg gga aca cac aaa atc Val Gln Phe Leu Glu Tyr Glu Leu Asn Val Leu Gly Thr His Lys Ile	11808	
3925	3930 3935	
gaa gat ggt acg tta gcc tct aag act aaa gga aca ctt gca cac cgt Glu Asp Gly Thr Leu Ala Ser Lys Thr Lys Gly Thr Leu Ala His Arg	11856	
3940	3945 3950	
gac ttc agt gca gaa tat gaa gaa gat ggc aaa tat gaa gga ctt cag Asp Phe Ser Ala Glu Tyr Glu Glu Asp Gly Lys Tyr Glu Gly Leu Gln	11904	
3955	3960 3965	
gaa tgg gaa gga aaa gcg cac ctc aat atc aaa agc cca gcg ttc acc Glu Trp Glu Gly Lys Ala His Leu Asn Ile Lys Ser Pro Ala Phe Thr	11952	
3970	3975 3980	
gat ctc cat ctg cgc tac cag aaa gac aag aaa ggc atc tcc acc tca Asp Leu His Leu Arg Tyr Gln Lys Asp Lys Lys Gly Ile Ser Thr Ser	12000	
3985	3990 4000	
gca gcc tcc cca gcc gta ggc acc gtg ggc atg gat atg gat gaa gat Ala Ala Ser Pro Ala Val Gly Thr Val Gly Met Asp Met Asp Glu Asp	12048	
4005	4010 4015	
gac gac ttt tct aaa tgg aac ttc tac tac agc cct cag tcc tct cca Asp Asp Phe Ser Lys Trp Asn Phe Tyr Tyr Ser Pro Gln Ser Ser Pro	12096	
4020	4025 4030	
gat aaa aaa ctc acc ata ttc aaa act gag ttg agg gtc cgg gaa tct Asp Lys Lys Leu Thr Ile Phe Lys Thr Glu Leu Arg Val Arg Glu Ser	12144	
4035	4040 4045	
gat gag gaa act cag atc aaa gtt aat tgg gaa gaa gag gca gct tct Asp Glu Glu Thr Gln Ile Lys Val Asn Trp Glu Glu Glu Ala Ala Ser	12192	
4050	4055 4060	
ggc ttg cta acc tct ctg aaa gac aac gtg ccc aag gcc aca ggg gtc Gly Leu Leu Thr Ser Leu Lys Asp Asn Val Pro Lys Ala Thr Gly Val	12240	
4065	4070 4075 4080	
ctt tat gat tat gtc aac aag tac cac tgg gaa cac aca ggg ctc acc Leu Tyr Asp Tyr Val Asn Lys Tyr His Trp Glu His Thr Gly Leu Thr	12288	
4085	4090 4095	
ctg aga gaa gtg tct tca aag ctg aga aga aat ctg cag aac aat gct Leu Arg Glu Val Ser Ser Lys Leu Arg Arg Asn Leu Gln Asn Asn Ala	12336	
4100	4105 4110	
gag tgg gtt tat caa ggg gcc att agg caa att gat gat atc gac gtg Glu Trp Val Tyr Gln Gly Ala Ile Arg Gln Ile Asp Asp Ile Asp Val	12384	
4115	4120 4125	
agg ttc cag aaa gca gcc agt ggc acc act ggg acc tac caa gag tgg Arg Phe Gln Lys Ala Ala Ser Gly Thr Thr Gly Thr Tyr Gln Glu Trp	12432	
4130	4135 4140	
aag gac aag gcc cag aat ctg tac cag gaa ctg ttg act cag gaa ggc Lys Asp Lys Ala Gln Asn Leu Tyr Gln Glu Leu Leu Thr Gln Glu Gly	12480	
4145	4150 4155 4160	

## DOC0216USSEQ2.txt

caa gcc agt ttc cag gga ctc aag gat aac gtg ttt gat ggc ttg gta Gln Ala Ser Phe Gln Gly Leu Lys Asp Asn Val Phe Asp Gly Leu Val 4165 4170 4175	12528
cga gtt act caa aaa ttc cat atg aaa gtc aag aag ctg att gac tca Arg Val Thr Gln Lys Phe His Met Lys Val Lys Lys Leu Ile Asp Ser 4180 4185 4190	12576
ctc att gat ttt ctg aac ttc ccc aga ttc cag ttt ccg ggg aaa cct Leu Ile Asp Phe Leu Asn Phe Pro Arg Phe Gln Phe Pro Gly Lys Pro 4195 4200 4205	12624
ggg ata tac act agg gag gaa ctt tgc act atg ttc atg agg gag gta Gly Ile Tyr Thr Arg Glu Glu Leu Cys Thr Met Phe Met Arg Glu Val 4210 4215 4220	12672
ggg acg gta ctg tcc cag gta tat tcg aaa gtc cat aat ggt tca gaa Gly Thr Val Leu Ser Gln Val Tyr Ser Lys Val His Asn Gly Ser Glu 4225 4230 4235 4240	12720
ata ctg ttt tcc tat ttc caa gac cta gtg att aca ctt cct ttc gag Ile Leu Phe Ser Tyr Phe Gln Asp Leu Val Ile Thr Leu Pro Phe Glu 4245 4250 4255	12768
tta agg aaa cat aaa cta ata gat gta atc tcg atg tat agg gaa ctg Leu Arg Lys His Lys Leu Ile Asp Val Ile Ser Met Tyr Arg Glu Leu 4260 4265 4270	12816
ttg aaa gat tta tca aaa gaa gcc caa gag gta ttt aaa gcc att cag Leu Lys Asp Leu Ser Lys Glu Ala Gln Glu Val Phe Lys Ala Ile Gln 4275 4280 4285	12864
tct ctc aag acc aca gag gtg cta cgt aat ctt cag gac ctt tta caa Ser Leu Lys Thr Thr Glu Val Leu Arg Asn Leu Gln Asp Leu Leu Gln 4290 4295 4300	12912
ttc att ttc caa cta ata gaa gat aac att aaa cag ctg aaa gag atg Phe Ile Phe Gln Leu Ile Glu Asp Asn Ile Lys Gln Leu Lys Glu Met 4305 4310 4315 4320	12960
aaa ttt act tat ctt att aat tat atc caa gat gag atc aac aca atc Lys Phe Thr Tyr Leu Ile Asn Tyr Ile Gln Asp Glu Ile Asn Thr Ile 4325 4330 4335	13008
ttc aat gat tat atc cca tat gtt ttt aaa ttg ttg aaa gaa aac cta Phe Asn Asp Tyr Ile Pro Tyr Val Phe Lys Leu Leu Lys Glu Asn Leu 4340 4345 4350	13056
tgc ctt aat ctt cat aag ttc aat gaa ttt att caa aac gag ctt cag Cys Leu Asn Leu His Lys Phe Asn Glu Phe Ile Gln Asn Glu Leu Gln 4355 4360 4365	13104
gaa gct tct caa gag tta cag cag atc cat caa tac att atg gcc ctt Glu Ala Ser Gln Glu Leu Gln Gln Ile His Gln Tyr Ile Met Ala Leu 4370 4375 4380	13152
cgt gaa gaa tat ttt gat cca agt ata gtt ggc tgg aca gtg aaa tat Arg Glu Glu Tyr Phe Asp Pro Ser Ile Val Gly Trp Thr Val Lys Tyr 4385 4390 4395 4400	13200
tat gaa ctt gaa gaa aag ata gtc agt ctg atc aag aac ctg tta gtt Tyr Glu Leu Glu Glu Lys Ile Val Ser Leu Ile Lys Asn Leu Leu Val 4405 4410 4415	13248



DOC0216USSEQ2.txt

gct ctt aag gac ttc cat tct gaa	tat att gtc agt gcc tct aac ttt	13296
Ala Leu Lys Asp Phe His Ser Glu	Tyr Ile Val Ser Ala Ser Asn Phe	
4420	4425 4430	
act tcc caa ctc tca agt caa gtt gag caa ttt ctg cac aga aat att	13344	
Thr Ser Gln Leu Ser Ser Gln Val Glu Gln Phe Leu His Arg Asn Ile		
4435	4440 4445	
cag gaa tat ctt agc atc ctt acc gat cca gat gga aaa ggg aaa gag	13392	
Gln Glu Tyr Leu Ser Ile Leu Thr Asp Pro Asp Gly Lys Gly Lys Glu		
4450	4455 4460	
aag att gca gag ctt tct gcc act gct cag gaa ata att aaa agc cag	13440	
Lys Ile Ala Glu Leu Ser Ala Thr Ala Gln Glu Ile Ile Lys Ser Gln		
4465	4470 4475 4480	
gcc att gcg acg aag aaa ata att tct gat tac cac cag cag ttt aga	13488	
Ala Ile Ala Thr Lys Lys Ile Ile Ser Asp Tyr His Gln Gln Phe Arg		
4485	4490 4495	
tat aaa ctg caa gat ttt tca gac caa ctc tct gat tac tat gaa aaa	13536	
Tyr Lys Leu Gln Asp Phe Ser Asp Gln Leu Ser Asp Tyr Tyr Glu Lys		
4500	4505 4510	
ttt att gct gaa tcc aaa aga ttg att gac ctg tcc att caa aac tac	13584	
Phe Ile Ala Glu Ser Lys Arg Leu Ile Asp Leu Ser Ile Gln Asn Tyr		
4515	4520 4525	
cac aca ttt ctg ata tac atc acg gag tta ctg aaa aag ctg caa tca	13632	
His Thr Phe Leu Ile Tyr Ile Thr Glu Leu Leu Lys Lys Leu Gln Ser		
4530	4535 4540	
acc aca gtc atg aac ccc tac atg aag ctt gct cca gga gaa ctt act	13680	
Thr Thr Val Met Asn Pro Tyr Met Lys Leu Ala Pro Gly Glu Leu Thr		
4545	4550 4555 4560	
atc atc ctc taa tttttttaaa agaaatcttc atttattctt cttttccaat	13732	
Ile Ile Leu *		
tgaactttca catagcacag aaaaaattca aactgcctat attgataaaa ccatacagtg	13792	
agccagcctt gcagtaggca gtagactata agcagaagca catatgaact ggacctgcac	13852	
caaagctggc accagggctc ggaaggtctc tgaactcaga aggatggcat tttttgcaag	13912	
ttaaagaaaa tcaggatctg agttattttg ctaaacttgg gggaggagga acaaataaat	13972	
ggagtcttta ttgtgtatca t	13993	

<210> 319  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense oligonucleotide

<400> 319  
 gcctcagtc gcttcgcgcc

20

<210> 320  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 320  
 gtcactgtt cagcatctgg 20  
 <210> 321  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 321  
 tgagaatctg ggcgaggccc 20  
 <210> 322  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 322  
 gtccttcata tttgccatct 20  
 <210> 323  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 323  
 cctccctcat gaacatagtg 20  
 <210> 324  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 324  
 gacgtcagaa cctatgatgg 20  
 <210> 325  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 325  
 tgagtgagtc aatcagcttc 20  
 <210> 326  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>

<223> Antisense Oligonucleotide  
 <400> 326  
 gccttctgct tgagttacaa 20  
 <210> 327  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 327  
 gcgccttctg cttgagttac 20  
 <210> 328  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 328  
 tcgcgcttc tgcttgagtt 20  
 <210> 329  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 329  
 cttcgcgcct tctgcttgag 20  
 <210> 330  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 330  
 agtctgcttc gcgccttctg 20  
 <210> 331  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 331  
 tcagtctgct tcgcgcttc 20  
 <210> 332  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 332  
cctcagtctg cttcgcgcct

20

<210> 333  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 333  
agcctcagtc tgcttcgcgc

20

<210> 334  
<211> 43445  
<212> DNA  
<213> H. sapiens

<400> 334  
accaagacag cgctcaggac tggttctcct cgtggctccc aattcagtcc aggagaagca 60  
gagattttgt ccccatggtg ggtcatctga agaaggcacc cctggtcagg gcaggcttct 120  
cagaccctga ggcgctggcc atggccccac tgagacacag gaagggccgc gccagagcac 180  
tgaagacgct tggggaaggg aaccacactg ggaccagcc cctgggtggct gcggctgcat 240  
cccagggtggg cccctcccc gaggtcttct aaggctcaaa gagaagccag tgtagaaaag 300  
caaacaggtc aggcccgga ggcgcccttt ggaccttttg caatcctggc gctcttgcat 360  
cctgggcttc ctataaatgg ggtgcgggcg ccggccgcgc attcccaccg ggacctgcgg 420  
ggctgagtgc ctttctcggt tgctgccgct gaggagcccg ccagccagc cagggccgcg 480  
aggccgaggc cagggccgag ccagagagcc gccccaccgc agctggcgat ggaccgccc 540  
aggccgcgc tgctggcgct gctggcgctg cctgcgctgc tgctgctgct gctggcgggc 600  
gccagggccg gtgagtgcgc ggccgctctg cgggcgcaga gggagcggga gggagccggc 660  
ggcacgaggt tggccggggc agcctgggccc taggccagag ggagggcagc cacagggtcc 720  
agggcgagtg gggggattgg accagctggc ggccccctgca ggctcaggat ggggggcgcg 780  
ggatggaggg gctgaggagg ggtctccgg agcctgcctc cctcctgaaa ggtgaaacct 840  
gtgccggtgg tccccctgtc gggccctagc acccgctggg aagacgtggg aagctcacag 900  
atttctttct cctgtcttac agaagaggaa atgctggaaa atgtcagcct ggtctgtcca 960  
agtaaggcat ctgcgcatgg ggcgtggaag ggcgcccagc cccgtgcact ctctacacc 1020  
cgggtccctg agggcctccc actctacagg gctgagatgg catcgtggtg tgccttgctc 1080  
tgaccccagg aagcaagttc cctgagcctc tgccacacc caagggatgc caactctctt 1140  
ctacctggcc ttctgttctg tccaaaagt tcagcctggg ggcgggggag ggaagggatt 1200  
gtctctccgc tggcctgtgc acactttgaa gaaacatcac tgtcctgttt atcagtgact 1260  
agtcattgat tcgaagcatg tgagggtgag gaaatactga ctttaacctt tgtgaagaaa 1320  
tcgaacctcc acccccttcc tatttacctg acccctgggg gttaaaggaa ctggcctcca 1380

## DOC0216USSEQ2.txt

agcgcgaccc tgtgtgctgg agccgcgggg cggacttctg atggggcagc accgccatct 1440  
 agtggccgctc tgtcatcact gcagctggac tcaggaccca gatgttcttt ttcttcaatt 1500  
 gttcagaaaa ttctctctcaa ctacagtggg aacctccaga aattcttttc taggagtttg 1560  
 ttaagttagt tacgcttaat gcttaatgaa ctttgcctta agtatttggt agtcttagag 1620  
 tcacggaatt acggcggtgtt caagctaaaa aagcattaga gatagtacta tttgcgtaat 1680  
 gttgtcatct ctttaatttgc cagaggggtct ctcatgcaga ttttctgagc cccattactt 1740  
 gacacttgct actcccttcc ctgtgcctca gatgagatat tcaagacatg ccagccaatt 1800  
 taaacattag cctcagcaaa aacataatgg agaagtcaaa tctataaagg aaaattaagt 1860  
 ataaagtcaa ttaaaaaata atttgagttg aattaccatt tttaattctc tatgccactg 1920  
 cccctctctg cccagaattg gctgtccttg ggagagctat ttctgctatg tggctgacgt 1980  
 atttctcccc acgttagaag atgcgacccg attcaagcac ctccggaagt acacatacaa 2040  
 ctatgaggct gagagttcca gtggagtccc tgggactgct gattcaagaa gtgccaccag 2100  
 gatcaactgc aagggtatgga ggatgcaggc aggaggggacc tagagccac agctttcccc 2160  
 cagccctgtt ccagcgggcg cccaacacgc gaccttcccg gaggggtgtg actgagcaaa 2220  
 cgcagaacat cccagaactg ttgtaatctg atcaaagcac tgggactttg cctctgtttg 2280  
 taagtcagcc acattgctga gatgtggtct gccccacca aatttcgcaa gtcagaagta 2340  
 ttttcccggt aacttcccag atgcaatagg aatccatgat ctagattagc agcagtgtgg 2400  
 gtctgtagat ttcagcgtga gagaggccca gtaggtgagc tatgggaggc aggcaactcg 2460  
 gaatcgcact gtgaaatgca gtttttataa ttttaagtcaa acagaatctg ttgctgaaaa 2520  
 atgaatggaa agaagaaaaa aatataaaca tacagtttgt tctaaaataa aactttgctt 2580  
 attattgaga ctggttgtagc tcattgttaca tacatgtgga gcagatctac aggctgctat 2640  
 tgggggtttg gtggggaaga gaagtcaagc tgagcagtc ctttttttta gagagtaccg 2700  
 tagctcttgt atgtgctgtc caatatggta gacatgagcc acattgggct atttaaattg 2760  
 aatgaaatta aaaattcata ttcgttgtca cattagctgc atttcaactg ctcaacagcc 2820  
 accctggcta ctggctcca tattgaacag cacacatgta caacatttct ataaagttat 2880  
 ttgaatagtg ctggataata agtaggaatc cgttgaaact ccagctatat gcaaagctct 2940  
 aaataggccc taatagatat aaccagtttt ttgggtgaca ttaaggagac atttgctgtg 3000  
 gaaacgaagg atggccctct tcctgctttc tgtttttctt cttcactttc actcctagtc 3060  
 tgcagcgctt ctatttaacc acagctcttt ataattaaag tgagtaactt tagaáccaat 3120  
 aaaaggacat cctccttccc atgcctaggg gcaaacttaa gaaatgtgtt acccgggagg 3180  
 gggaaaacgt cagcaatagg actaagtcta gggttggtgca cagagaaccc aggaggcatg 3240  
 ttgataaggc atgtggtgtt gaggcgcagg cagtgggtgtt cccagcacca ttcccttttg 3300  
 tgctctgatt agagattaag ccctgggctt caggggccac ctctcattct tgatagacaa 3360  
 cctcaatgct ctgctaccct gaattctcag gttgagctgg aggttcccca gctctgcagc 3420

## DOC0216USSEQ2.txt

ttcacccctga agaccagcca gtgcaccctg aaagaggtgt atggccttcaa ccctgagggc 3480  
 aaagccttgc tgaagaaaac caagaactct gaggagtttg ctgcagccat gtccaggtaa 3540  
 gtcacgttgt acatgagcac acgcatgtgt gtgtgtccgc tgaggtatga acttggtgtg 3600  
 ttgcaccagg cacggatgtg actgtaagta tttgtattcc gtatccatcg tggatcaggg 3660  
 aattactgag ttttcacaat catcaaaaag agagaagcat tagttaacct tccctagtta 3720  
 gggtccttta attatcattt tcatgtgttt ctaaaaatct catgctttta acttcttgag 3780  
 attataaaac tgagatgctt tgttttaaca agtgaattct tatttaaaga actagtcaag 3840  
 actagtgcctt ggtggtcctt ggtgtggggc cccagaggca ctggctgctg tggccggcac 3900  
 atggcggggc aggggtctgt caccgcaggg cagaggagca ccaaggcttc ggtggctccc 3960  
 cctcctaggc tggcattcag ccaactgcacg ctgatcggcc actgcagctg catctctgct 4020  
 gactggctag ggcccatgtc gcacccattg taaatatttt caacatcacc cctgcctcat 4080  
 cctcaatcac agttttagg gtcctagggt tgtatgaata caggcaggat agagtgttta 4140  
 acttggtagc atcagaaaac tctgtctgta ttagtctgtt ttcacgtctg tgataaagac 4200  
 atacctgaga ctgggcaatt taaaaagaa aggtttattg gactcacagt tccacgtggc 4260  
 tggggagggtc tcacaatcat ggcggaaggc gagggacagc aagtcacatc ttatgtagat 4320  
 ggtggctggc aaagagagct tgtgcagaga aactcctgtt tttagaacca tcagatctcc 4380  
 cgacacccat ctgcaatcac gagaacagca cgggaaagac ctgcccccat gattcaatca 4440  
 cctccccccg ggtccctccc acaacacgtg ggaattatga gagctacgag acgaaatttg 4500  
 ggtggggacg cagagccaaa ccatatcacc atccttgccc atttttcagt tttgctaaac 4560  
 attagattca gatgccagtc ctttcttgcc aaaataggct gtgaggcttc tttctttcct 4620  
 atgctttatt ttctccaaga cttaactgta tatgaggag aggggtatgg tggcaggagg 4680  
 aaagagtggc ttattttttg gtccttggtc ttctccaaat acagaagaga ctctgttct 4740  
 tgaaaaggag ggctttccat gtttgcattt tcatgacttt aactgtcttt tttaaaaatt 4800  
 gacatacaat aattatacat atttattgag aacatagtga ttttttgata catgtaattg 4860  
 atggtgatca gatcagagta attagcatac ccatcatctc aaacatttat catttcttcg 4920  
 tgttggaac tttctgagag agtgtaggct gtgggagata agtccgtcac ctttctctc 4980  
 tgatgtaacc agagtggctg cagccaggct ctcagaaact cagagagtac ccagtgggaa 5040  
 atccctaaga ccaaagtcag catgggcttc agccatggcc tgacaccata caaaagaatg 5100  
 actgtccaac aagtgtatga aaataagctc caattcactg gtagtcaaga aatgcgaatt 5160  
 aatgtaacaa caagatattt atctgctttt acccatcata ctgcaaaact ggaaaacagt 5220  
 gatagcacct gttgctggca ggccagttag gaaaagtgtg ctgtcctgag ctgctggtgg 5280  
 aaacgagagc catcaggcaa tatctactgt aatttaaaat acttaatacc ctttgacaca 5340  
 gatattttag tctttgggac tctagcccat gaaaataaaa gcagtaattg gtgaagatag 5400  
 gcacataagg atgtttgttt tggattgttt tgtgtggttt aaaaaaatc cagaaagaga 5460

## DOC0216USSEQ2.txt

gagggcaaat gccatcaaat ggggcaatgt gtgaataaat tatatttagc catggaatgg 5520  
aatgttctgc atgcagcttt taaaaaaatc tgtagagct gtaccaagtg actcagaagg 5580  
atTTTTgtga agtataatta agtgagaaaa acaagataaa agtatgcata atacaatgcc 5640  
acttgtataa aacaaacaat ggcaaaatct ttgtatgact ctgtttgcac tcacccatgt 5700  
ttacagagga ttgtatgagt gtgcagaaac aaatggaaca accactcggg tgtccgtatg 5760  
gggaggatgg gcaaagagac tgatatgggt ggagaacaga gcagggctgg atgagccaag 5820  
caaaaaaagt taaaacacag ctggacctgg tggctcatgc ctgtagtccc agcactttgg 5880  
gaggccgagg agggagaatc acctgaggtc aggagttaga gaccagcctg gccaacatgg 5940  
tgaaaactgt ctctactaaa aatacaaaaa ttagctgggt gtgatggcac atgccagtag 6000  
tcctagctac tccggaggct gaggcaggag aatcacttga tcccaggagg tggaggttgc 6060  
agttagctga ggttgcgcca ttgcaactca gcccgggcga ccgagcgaga ctccatttca 6120  
aaaaaagaaa aagaaaaaag aaaaaaagaa aaaaaaagaa tcaccaaacc ttatgtatat 6180  
gtgcatactt ttttgaaaat gtatgtctat gtgtagctat attctatatt tacaataaaa 6240  
tgatgtcaga agaacaattg gttaaaaaaa tatgagaaaa gaaacttcag tgccaccag 6300  
cttacttcca gcaagttgta atggagaagg acatttccgt gaccatcctc tctctgggac 6360  
aggtatgagc tcaagctggc cattccagaa gggaagcagg ttttccttta cccggagaaa 6420  
gatgaaccta cttacatcct gaacatcaag aggggcatca tttctgccct cctggttccc 6480  
ccagagacag aagaagccaa gcaagtgttg tttctggtga ggatttagaa agctgatagc 6540  
agtggccctt gaaactcatc ttcattgtgt agagaccagt cctaccatat acaaagcaga 6600  
tcaactgagtc agctccatga ctagttacat aggaagccct ggattggcgt gaaatactgg 6660  
tgcccagggt tcctcctgcc ccttaggctc actgacagat catcccaagc aggcattatca 6720  
ggttgggtct aattttaaaa cagtcattga ggagtcctgg ccaccccacc cctgcttttg 6780  
tttgatgctt cacctgtgtt tgctgggtta tgggtgtacac agtaaatect gtgtgtattt 6840  
taaacaccaa aaataatggg atctgttgct ggtctctttt acgaatttca ggtttactg 6900  
tgagacagaa ttcatttcac ctcaagccca tgagcacttt tgtgtgttct aatttctcta 6960  
cgacaccata atgggagaag acaccgatgc aacctgcgga ggcctttctg cagaccacc 7020  
tttaactggt tttctctctc ccaacttggg ctggccaggc actagcaaga ccacactctg 7080  
cataggaaga aaaagaaagt ccctcccaaa gctagattcc ttctgctttt tctttcacga 7140  
tccccacccc atccctccca agtaccacaag gatgttgccc gtgttgaata catgtggttg 7200  
catcttcttc ctccatagga taccgtgtat ggaaactgct ccactcactt taccgtcaag 7260  
acgaggaagg gcaatgtggc aacagaaata tccactgaaa gagacctggg gcagtgtgat 7320  
cgcttcaagc ccattccgac aggcattcag ccacttgctc tcatcaaagg catggttaagt 7380  
cccatgtcag cactgtcgtg cacagcaagg agcatcctct tattaataca attccagaac 7440  
ttttgagcta gtgggcacct ttgaggacag cctgccctgg ctgtttttta tacagactag 7500

## DOC0216USSEQ2.txt

agataggacc ctgagcaggc acgggaaggt ctgcccaggc ttcacggcct gggatcagtt 7560  
 gagccaaggc ttgagtcagg ctctccctc ccagcccaga gctctgtctt tcctcctgtc 7620  
 cttctgtcac tggcaccaaa ctgcctctaa tctcatcact tgagagtaat gactactcac 7680  
 ctctgagaag gttccgggga tggatgtagg gcagcaaaac caccttctgt tcttttctgc 7740  
 acaaggactc cttgtgccag ctccaagcct ctggcctttg aagaagtccc aagacctgtg 7800  
 ttctccccct ctccctcatc ccatgaagtg gagtgactta gagtgctcca gcttcttgtc 7860  
 cttccacccc cagtaccacc ctgaccaaac atggccccac tgccaccggc ctggagcacc 7920  
 ctctcctctc tgttaactgg ggccatggag caccatatta cctgagcctg cctgaccctt 7980  
 gcaacatctt ccctgatatg agccccagcc tgtctcagtg aacatgaata acttgggcaa 8040  
 tctactgtcat gctgggcgct gttcctggc attgtcctta gggttgaaaa caggagagtct 8100  
 gatgaccatg agtgccacag tcagaagagg ataatgcact ggcttagggg tcttttctga 8160  
 gcatctgctg tttgctcaac cccactctgg gcagcaccaa ggaagggaca gtggcagatg 8220  
 aaccatggac cttcccctca ggatgcttcc agtctaattgc aggagccagg tcaataaagt 8280  
 atacgtggta tactcaataa ggtgataagc tgaacagtgc agacaagaag tcctgggcct 8340  
 gaccaggaag gagaaagaat tattcatgta gctcagcggg caacatttca tggaagatgt 8400  
 ggagcaggaa cccaaaaaat gcaaagaata tgtaaatgaa agagacatgt aagaatgggc 8460  
 ttttgggcaa agaaaagtta ctgagcaggt gtgtgagggg ctatgtggtg ggatgggcat 8520  
 gtggaggata caaagtttag acattgtcca gtgaggggtg aaaaagagga gtctacagct 8580  
 tgactcagct ttggggatgc cgacttggtg cccccctgg tctaaatgtc aagtaccag 8640  
 ttatcttctt tctctgagtt tatctagtgg tacaggactc ctgctccctt ctaccttgaa 8700  
 ggtaaagtct ttaacagaa gatacagga ctgatcaaaa tgctcgtctc caatctcttt 8760  
 catagaccg ccccttgta actctgatca gcagcagcca gtcctgtcag tacacactgg 8820  
 acgctaagag gaagcatgtg gcagaagcca tctgcaagga gcaacacctc ttctgcctt 8880  
 tctcctacaa gtaggtcatg tgatgcaccc ctgatttgtc atttaatggg tcagtgtgaa 8940  
 ctgaacactt ctcaagtgt ctgttccagg caaacctgtg cctgggaggg aggaatggag 9000  
 agggataaaa tgccgcccct ccctgtcccc ctttttaagc gaacaggcca tttggcagaa 9060  
 aagtcctagg catgcaaaac aatccaagac caacaaaaga tatctaagac ccattcttta 9120  
 agggctgtag atccagaaaa cctgaggatc actgcagggt accctgggta gaaaaggttt 9180  
 catggaagat ttgggatact gactggaaac ttgtgtatcc aaatccactt tgaaaactga 9240  
 taatcaatga atatatattg agtaactgcc atattcttgg ctctatgttg tggaagatac 9300  
 gaaagaattt tgagacattg cactagtctc tacctctggc cactccagac tagtggagag 9360  
 tataaggcac gcatgtcttt ttgatgggag gataactagc gtgaccagga agaggtggat 9420  
 gttattcatt cagggccaac aatggctgga tttaacctg ctttgaaaga tgggcaggac 9480  
 ttgggtagat gcagagacag ggaaaacctt caacatggaa agaatagtat gttctggcca 9540



## DOC0216USSEQ2.txt

tccgtgacat ggtgtgcttc cttggttacc aggaataagt atgggatggt agcacaagtg 9600  
acacagactt tgaaacttga agacacacca aagatcaaca gccgcttctt tggatgaaggt 9660  
aagagtttct gtccacatag ttgctggaaa atctactcaa gatgtgccta tcatggctta 9720  
gccacttgct gagccctgtt aaatgtctgc tgactaaca gtgatacaga cactggtgtt 9780  
ctggctacct ctagtgagaa agcaaactca tttcatgatg tcaagttgca atggcataaa 9840  
ggaaaagaag ttcccaaagc tacttaggca tttgtaaaata gaaaactgga atcctaagtt 9900  
taacatgaca tatttgatag aactgacatc acccatcctg tgataagatc cagagctgtc 9960  
ccagacgagg tggaccaagt gggagagAAC cttcagagtc tggccagata gtaacctcag 10020  
gagtcagtct ttagaggtag aaggaactct aacaatctca agtccaaccc ttaccagta 10080  
ttgtattgta tttatatctg tccaaattcc ttcttgtaaa ttacctcatt gtcctttttg 10140  
ctcatagcaa cctgtgatgt cagggtggtag agatgtgatt ttataacctat tctacagagg 10200  
agacagtgc acagagaggc ttagagtttg atgtagtcaa ggccgcagaa tattagaggg 10260  
gggaaaataa gtgccagggt gtaatctaag ccaggactat tctcattaca ccacatttcc 10320  
atgatgactt ttacctctct tctggcata ggtcacagta ggtggtggag aggatacaaa 10380  
agtgtctccc ctccccaca gctgctggta gaccaatta gaagaaatgg tgataagcac 10440  
ccatgtgcct ggtcccagtt gtaaccatgt caacagtagc acctcctcac caattatttc 10500  
aagctaaggg taacctgatg atagactcag acaagtctgg attccacttt agctctacct 10560  
cttagaccct gagagctctt gggaaaccta agttgctcat ctctgggtca cacttctca 10620  
tctctgggtc tcatctcttt gtctcatctc tgggactcag agctgagatc cagggatgag 10680  
caatttacat ggcccaaaaa ctctgtgggt ctgagaagca gggctgaatt tatcattaaa 10740  
ttgaacaata atgccacccc acagggatag gatgatgagt cagtgaAAC aagtcaatca 10800  
cctatggcag agccagatct agcaggcatt gaatacagga tagtttcttt cccttttccc 10860  
ctgtgctgat actccacaat ttccagcttc cagtagacaa agatatgggt gagatgaaga 10920  
aagctagagt tcctttgaca ctttccatct tccaggactt aagaagatgg gcctcgcatt 10980  
tgagagcacc aaatccacat cacctccaaa gcaggccgaa gctgttttga agactctcca 11040  
ggaactgaaa aaactaacca tctctgagca aaatatccag agagctaatc tcttcaataa 11100  
gctgggttact gagctgagag gcctcagtga tgaagcagtc acatctctct tgccacagct 11160  
gattgaggtg tccaggatct taatgggttac agctcaactt tttataaaac tgatggtaac 11220  
tgactgaact ttcaaacctt ggccaaatgg agaactctcag ggaccatttg gatataatc 11280  
cagttaatca attagtcaat cagttcatga ttgctggata gagaactatc agctgctgctg 11340  
ctgagttcca tgaaacacac acgcgcatac tgtgttcaag gcagctatgt atttgtgtgt 11400  
taaaacagaa ggagaatagt tccacattt tgatgggtaa cttttaattc ctaggtctat 11460  
tgcagggtgct ctccagaagc ttataggctg gtggagagag aactcagacg aaaaatataa 11520  
tatgatttct ctacccttca aggcactggc ttttaagtgt atgaaggtga gagaagggac 11580

## DOC0216USSEQ2.txt

tgaggccagg aatgagaccc agctaattgtt ggccaggcat attctgtgtg ctggccaaag 11640  
 gactgtgata acagtcttct tgttgctaca gatccacagt cccctcttgg aacttttctc 11700  
 gattgggctt cttctgtggg taatattcct aaggaaagca tcatggttct gagctccaag 11760  
 ttgggttttg aagttagatt tgaatagtga atgagggtgat taagggtctt cctggcagag 11820  
 gacacaccat gagcaatatt ttatgtgccc tgaagggtgt ctgtataact ttatccatgt 11880  
 ctttcttctc agcccatca ctttacaagc cttggttcag tgtggacagc ctcagtgtctc 11940  
 cactcacatc ctccagtggc tgaacagtgt gcatgccaac ccccttctga tagatgtggt 12000  
 cacctacctg gtggccctga tccccgagcc ctcagcacag cagctgcgag agatcttcaa 12060  
 catggcgagg gatcagcgca gccgagccac cttgtatgctg ctgagccacg cggtaacaa 12120  
 gtgagtttcc aactgtatt tctcctccta ggagcagagg aacatcttgc acctctgtgc 12180  
 atctctgtat taaaactgaa cccctccttc cactttcaaa ctctgtctct tactcttgtg 12240  
 ttttttcttg atcatttttg gggtaatgac ttgaaataag aaatcagcaa acacaaattg 12300  
 aatttttaaa aatattttct ctacattata ttataaaagt ttttgaacat agcaaagttg 12360  
 acagaatttc acagggaaaa cccctagaaa accagctatc tcctactatt taagtgttat 12420  
 tatatttgct ttatcacata tacatccatc cattaattca tcttattttc tgaagcattt 12480  
 caaagtaaat tgcaaacatc aacacacttt cccctaagta ttacagcttg catattatta 12540  
 acttcagttc aatattagtt agcagttttt tcctctgaat ttttttgttt gtttgttttg 12600  
 tttttttttg ttgttgttgt ttttttgaga tggctctact gtgtcaccca ggctggagtg 12660  
 cagtgatgca gtcacggctc actgaagcct caaattcctg ggctgaagtg atcctccac 12720  
 ctcagcctcc tgagtagctg ggaccacagg tgcagtgtac catgccctgg ctaatttttg 12780  
 tattcttggg agatacaggg ttccaccatg ttgctcaggc tagcaggttt ttcctttgat 12840  
 gaaatttttt ggctttttct tttttacatt tttatataaa tttatgtgga acaagtgtaa 12900  
 ttttgttaca tgaatagatt gtgcagtagt taagtcaggg ctttcagggt atccatcacc 12960  
 cagacaacat atagtgtacc cactaagtaa tttctcacca tccatctccc tccacttcca 13020  
 caccttctga gtctcaattg tctatcattc cacacactat gtccttgtgt gcacattatt 13080  
 tcaactccac ttataaatga caacacgcaa tatttgtctt tctgtgactg tcctgtttca 13140  
 cttaagacaa tgacctccag ttccatccat gttgctgcaa atgacatgat tttattcttt 13200  
 ttatggccga atagtatttt attgcctata catttcacat ttttaatcca atcgtccatt 13260  
 gatagacact taggttgatt ccatgtcttt gctattgtga atagtgtgt gataaacata 13320  
 tgggtgcagg tttccttttg atataatgat ttttttctt ttaggtatat acccagtaat 13380  
 gggattgttg gatttatttg tagttctatt ttttagttct tgagaaatct ctgtattgtt 13440  
 ttccatagtg gttgtactta tttacaatcc catcaacagt gattaactgt ttccttttct 13500  
 ctgtatctc accaacaact gttatttttt gtcttttgaa taatggccct cctgactctt 13560  
 gtaagatgtt atctcattgt ggttttaatt tacatttctc taatgattag taatgttatg 13620  
 cattttttca tatgcctatt gccatttcta tgtcttcttt tgaaaaaat gtctattcat 13680

## DOC0216USSEQ2.txt

gtcctttgcc tactttttaaa tgggattatt tgggggatttt ttttgttgag ttgtttgaat 13740  
 tgcttgtaca ttccggatat tagtacccca ttggatgaat agtttgcaaa tattttctcc 13800  
 cattctgcag gttaccaccc tgttgattat ttgttttact gtgcagaaac tttttacttt 13860  
 aattaagtcc tatttgtcta ttttttgttt ttgttgtcct tgcctttgag gtcttattca 13920  
 cgaattcttt gtctaggcca atgtccagag aagttttccc taggttttct tcttgcatth 13980  
 ttatagtctc aggtcttata ttttaagtct tgatccatct tgagttgatt tttttatatg 14040  
 gtgacagata ggagttccagt tttattcttc tgcataatggc aatccatctt tcccagcacc 14100  
 acttattgaa aagggtgtcc tttccctagt gtatgttttt gtcaattttg tcaaagatcc 14160  
 gttgactgta agtatgtgac tttatttctg gggttcagtat tctgttccat tgatctatgt 14220  
 gtctattttt atgccagtac catgctgttt agattactat agccttggtg tataatctga 14280  
 agtcaggtaa tgtgatgcct ccagctatgt tctttttgct taaaattgct tcagctattc 14340  
 aggctctttt tggattccat atgaatttta taattatttt ttctaattca caagtttggg 14400  
 ttttaagaca aacctaactg gggttaccaaa gtcctgactc tcttctctta ttctgtagct 14460  
 atcataagac aaaccctaca gggacccagg agctgctgga cattgctaatt tacctgatgg 14520  
 aacagattca agatgactgc actggggatg aagattacac ctatttgatt ctgcgggtaa 14580  
 tctcagtctt ttatatgaca tacatcattt cagaagcact tttcctggac accttttact 14640  
 tccctctcct gcaccctgat gggttcttgt ttcttttctt caatgcaggt cattggaaat 14700  
 atgggccaaa ccatggagca gttaactcca gaactcaagt cttcaatcct gaaatgtgtc 14760  
 caaagtacaa agccatcact gatgatccag aaagctgccaa tccaggctct gcggaaaatg 14820  
 gagcctaaag acaaggtaaa gtccacaaga agaggtctga aagtgaaggt ttattaacaa 14880  
 ggatttggaa ggtactaggg gaatgagact ctagatttca tctactgact ttattctgct 14940  
 gtttctttcc tttccttctt tcttctcttc cttccttctt ccctccctcc ctttcttctt 15000  
 tcttctcttc cttccttctt tctgagatgga atctcactct attgcccagg ctggagtgc 15060  
 gtggcatgat ctcggtcac tgcaacttct gcctcctggg ttcaagcaat tctctctgcc 15120  
 tcagcctcct gagtaactgg gattacaggc atgtgccatt acaccagct aatttttcta 15180  
 ttttttagta gagatggagt ttgcatgtt tggccaggct ggtcttgagc tctgacctc 15240  
 aggtgatccg cctgcctcag ctttgcaaaag tgctgggatt acaggcgtga gccactgcac 15300  
 ctggcctcta ctgttttcta attgcaaatt tcaacaagcc tattgacttg actgcctagc 15360  
 agtatgtgac gtgagagaaa tacttgactt tgctgctatg tcaacatgca gaacgtgaga 15420  
 tgtttttgct tcctaccgtc cacctaccag attgaccatc cctctcatca tggaaaaaca 15480  
 tgcttaattt tcccccaata agcttaggct aggatagcca acttggtccc ctcttaggtg 15540  
 caaagactcc agaactttgg aaactaccct atttatttagc cccaaactct tactaccctt 15600  
 tctcatcttt atcctcacat taaaataact tacgttaaaa caacttgatt ttcacttagt 15660  
 ggtggatctc caaacaatc acaacttggc cataatttat gtgttttaat ggaattgaat 15720

## DOC0216USSEQ2.txt

tcaacaggca ttccacaggc tttttctggg aacccttact tgatagtgct ctaggaaaca 15780  
ctggcaagaa gattcaatac cagcatttga agaacgatta cagagaaatt agacctgtgc 15840  
ttaagaaaga gctagcagac aatgccagtg tttgccaggc atgttctgtg ttctgaccac 15900  
aggacagtga taaccatctc ctcttttgac tgcaggacca ggaggttctt cttcagactt 15960  
tccttgatga tgcttctccg ggagataagc gactggctgc ctatcttatg ttgatgagga 16020  
gtccttcaca ggcagatatt aacaaaattg tccaaattct accatgggaa cagaatgagc 16080  
aagtgaagaa ctttgtggct tcccatattg ccaatatctt gaactcagaa gaattggata 16140  
tccaagagta agtaagagct attcacccca tataccactg agggccctga gctggaattc 16200  
caaccctagg ttttggcata gccactgtct gcccttgctt ctgaaacaaa cacttgtgca 16260  
aatgtgtagc agatctagac ccaaagactt aggggtcaatg aaatcaagac attttggtag 16320  
tgattggaaa tccatattta cttgggggtgc aagagtcaaa ggataataac atgggtgtgtc 16380  
agctcaaaat atacttcttc ttatctagtc tgaaaaagtt agtgaaagaa gctctgaaag 16440  
aatctcaact tccaactgtc atggacttca gaaaattctc tcggaactat caactctaca 16500  
aatctgtttc tcttccatca cttgaccag cctcagccaa aatagaaggg aatcttatat 16560  
ttgatccaaa taactacctt cctaaagaaa gcatgctgaa aactaccctc actgcctttg 16620  
gatttgcttc agctgacctc atcgaggtaa gtgtgaagag tttgaggttc tctagcccat 16680  
tttgtacagc atcataaaca gagagtccct gggagccagg agctaccag agggaaaacta 16740  
agaaccacca ggcacttctt accatgattc tgaggcttct ttctttccct ccttccccgc 16800  
cttctctctt ccccgtagg ggtcacctga agcatgactt cttaacatta atagaaatgc 16860  
aggcctggcg aggtggctca ctctgtaat ccagcactt tgggaggccg aggcgggtgg 16920  
atcatgaggt caggatatcg acaccatcct ggctaacacg gtgaaagccc atctctacta 16980  
aaaatacaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc tacttgggag 17040  
gatgaggcag gagaatggcg tgaaccacag aggctgagct tgcagtgagc cgagagattg 17100  
cgccactgcy ctccagcctg ggcgacagag caagactcca tctcaaaaaa aaaaaaaaaa 17160  
aaaaaaaaattg aaatgcaaat gtctcgtctt taagtcccaa agccaaggaa gcatatgtgc 17220  
tgcctagtca gatctgcttc aaatctcaaa tcaactccaa ctctgaatcc tttgttgaat 17280  
tatttgcct atctgaacct tagctgcctc ttctagaaaa aagcaagtaa taaggtaag 17340  
attctagtga gattttaata aagcagctcc tgtgaaatgc taaggtcagc tcctggcctg 17400  
tggtattcaa atacttgttt agataaatgg acatcaagag tggggactac taggctggca 17460  
tacaacaaag aaacctgatg ccattttctt gtctgatttt ctttctcaga ttggcttgga 17520  
aggaaaaggc tttgagccaa cattggaagc tctttttggg aagcaaggat ttttcccaga 17580  
cagtgtcaac aaagctttgt actgggttaa tgggtcaagtt cctgatggtg tctctaaggt 17640  
cttagtggac cactttggct ataccaaaga tgataaacat gagcagggtg gtatttgtga 17700  
agtatcttct taaggaaagc tttgggtctc aatgcaaaaa caattctttt ctaagcatgg 17760

## DOC0216USSEQ2.txt

aagtcctcaa aatactatct aactgaaggg ataactatgg tttttatcaa ccagacctgc 17820  
tggggtaagg gccagtatcc tctgcagtta aagatctcct gaattcagtg tgcccagaaa 17880  
ccagactcac aataagtact ctaggataac aagagtatga actctgggct ggggtgtggtg 17940  
gttcatgcct gtaatcccag cactttggga ggccaagggtg ggcagatcac aagggtcagga 18000  
atttgagacc agcctggcca acatactgaa accccgtctc tactaaaaat acaaaaaaac 18060  
tagctgggca tggtagtggg tgccctgtaat cctagctact cgggagggtg agacaggaga 18120  
attgcttgaa cccgggagggt ggagggttgca gtgagccgag atcacgccgt tacactccag 18180  
cccgggtgac agtgtgagac tgtatcttaa aaaaaaaaaa agtatgaact ctgggcatag 18240  
atttaattct aacttccctg tcttgaagct gtgcgcactt ggggaagttg gttgatatta 18300  
tgtgtatctg tttctgtctg tatccagac tactaataac agtccaaacc tcacaagggtt 18360  
atttaaagac aatgaaataa ggcattctaa atgccaaagca cagtgcctga tgctggcatt 18420  
ggttgttcaa taagcagaca ctattacgag ttctaaatta atattttcat tattattaac 18480  
tgctgtcttt ggctctcact cccatcagtg cactagcaaa tgagaccaa cttccacttt 18540  
gaagctagca atgagcccc atttaaggag ggaaataggt tgtatgatct ggagcttatt 18600  
cttgaatttt ttgctacca aagtgtggtc tggtcagaaa tacagcttct catgcttcac 18660  
ccacaatcta ctgaatcaga agcgcatttt agcaagacct catgtgactt gtatgcacat 18720  
tcaactttgc agagcaaggc agtaatttac ccctccaggc tctgtgtga gcacgagctc 18780  
catcttctaa tttcctgacc cccacttgag gccgaggatc tttgatctgc tttgagtctg 18840  
tcagtttcac attttttttt tcccaatgcc tgggcatcca tctctgagat tcttcttctc 18900  
tctgagaaga acttgtctag gatcaagtgt ttttcaaact tctggtgaat ttatataaca 18960  
gctacatttt cttagaagaa accttgtagt cttcactggt caaagaagag aaggctaagc 19020  
agggaaacggg tgggggatag aggatcttct aatcttgagg atcctggcat actggagaat 19080  
agggaccctt cctctcatcc caccacatct tactatgtct acagattttt taattaagaa 19140  
tagctttagg agtgccacta tccctgacaa gaccttagtt ctttaatctc tgcttagagg 19200  
aattagcctg gacttcagtg tctccctggt cctcacctgg agcatttttt aggcccatcc 19260  
tggctgcatc agacagggtc cacattggga actgaaagggt gtttgacatt gctgacatct 19320  
cactggccat tttattacta aactctcagg atatggtaaa tggaataatg ctcagtgttg 19380  
agaagctgat taaagatttg aaatccaaag aagtcccga agccagagcc tacctccgca 19440  
tcttgggaga ggagcttggg tttgccagtc tccatgacct ccagctcctg ggaaagctgc 19500  
ttctgatggg tgcccgact ctgcagggga tccccagat ggtaagtcag caggccccac 19560  
tgggggcccc tgagaccaga cgttggtttt tttttagatc gccagactc cttacgatc 19620  
ccagctgcac aagcccgaag agatgcttgt actttcttca gagatggagg tttgccttga 19680  
atttactga agatgactct tggatcacat ggaaatgtta acatttagaa attagctat 19740  
tcataatggt agctgtattt ttaagagcat taatttattc atctggaaaa caatgttcgg 19800

## DOC0216USSEQ2.txt

tataccttcc tctacctttg ctgaaggtcc ttttattttt atttttattt ttttaatttt 19860  
ttgagatgga gtcttgctcc caggctggag tgcagtgata caatctcggc tcaactgcaac 19920  
tctgccttcc gggttcaagc aattctcctg cctcagcctc ccaagtagct gggactgtgg 19980  
acgtgcacca gcatgcccgg ctaatttgtg tatcttttagt agagacaagc ctgttgacaa 20040  
ccatgtcagg ctgggtttcga actcctgacc tcaagtgatc ctccagcctg ggcctccac 20100  
agtgtggaa taacagggtg gagccactgc acctgacctg aaggctcctt taagattgaa 20160  
atgatacaat gattataaaa gaaagtattt ggcaaaactat aattcactat ctaaatatgc 20220  
tataattttt attattaatt cataaaagga aatatataaa tgtactccta tggcttgatt 20280  
aaaaaaatgt tgactttaag aaaacaggct tcaagctatt ttattgaaat attatttaaa 20340  
aaataaaacc caatgcaaat tgatatgtac atcatctcaa taggcctttg gtttcaaaaa 20400  
attgatttta tcataatata atacatttca agtacacctt cacttacagt cagactccag 20460  
aacaccagaa ttaagccatg gcatatatga tacttaaagt ccataaagct ctgaggccca 20520  
gcaatattct taagagcctt ctgagtcac ttgaaaatga catgatattt atctagttaa 20580  
atttcttata tcctgattca ctgaaaacgg taaaaacatc agtttgatct ttatttatca 20640  
aactattcag ctcatcaaaa tatgctagtc cttcctttcc agataaagag gaattactct 20700  
ccaatgtatg ggaggttgta attaacaaaa ccgactttaa aaagacttac ttttatttgc 20760  
tctcccttgt tgggtctaca gattggagag gtcatcagga agggctcaa gaatgacttt 20820  
tttcttact acatcttcat ggagaatgcc tttgaactcc ccactggagc tggattacag 20880  
ttgcaaatat cttcatctgg agtcattgct cccggagcca aggctggagt aaaactggaa 20940  
gtagccaacg taagattctg tttgcctttt gatttcttag gttattactt tcttccaggg 21000  
tgcatttctt gttaaaacat atttaaaaat gtgtttccac ttcaagacaa aatgcttcat 21060  
cattgtaatc acctcattat ttttttatga aaaacttcaa gcttccacca gaatgactta 21120  
cctcactagc tccagtagtg gtatggccat aagacaagaa ctcagttctc tcaacaaatg 21180  
agtattccta tcatcttttt aatctggttt tgcctcacgt taactcaggt gctttctagt 21240  
tctgggtagt atactccaac tctagagaac tgagaactcg ctttcttct tccaaacaaa 21300  
tcccagtaat gtttccaaag gtctgagtta tccaggaaat ctttgcccgg aggtgagaaa 21360  
gggtggttga tctgactgac aggggactga agtatattaat gaatctgaat aggttggttt 21420  
ctgacttata gatgcaggct gaactggtgg caaaaccctc cgtgtctgtg gagtttgtga 21480  
caaatatggg catcatcatt ccggacttct ctaggagtgg ggtccagatg aacaccaact 21540  
tcttccacga gtcgggtctg gaggtcatg ttgccctaaa agctgggaag ctgaagttta 21600  
tcattccttc cccaaagaga ccagtcaagc tgctcagtgg agggtaattc tttcagccaa 21660  
gtctgcctag ccagtttgaa agagagaaca gagaatgtac ctgcagaatt ttgccaggct 21720  
aaacagttga ttgagatcat tcaggtcctg aggaagcagg agaggagtag aaaggaaaga 21780  
ttccgggtta cctattttta ttctagccta gacttactac ataactacat aattaccttt 21840

## DOC0216USSEQ2.txt

cttctacttt tcacatttta ctaaactgtc ctttatcttt ctgctttgag acttattaag 21900  
 acctactgct taattagttt ttattaagtt gtgatttttt gttatctatt tgttttgaga 21960  
 atgaagaaac aatagctctg gagagatcat ctttggaataa ttaatatattt ccccccaaa 22020  
 aaatacctaa gaacatattg atttgaggta gctaggtagg taaagcatga aactcctaac 22080  
 ctcgtgataa tggaatacag cctcttttgg agagttccat ttttaagtggc accctcaacc 22140  
 attgatttgc cttagttttc atatttttaga cacattcatg tgttcattca aaaataatat 22200  
 ttaattggcc agccacggtg gttcatgcct gtaatcctag cactttggga gccccagggtg 22260  
 gatggatcgc ttgagccctg gtgtttggat accagcctgg gcaacatggc aaaaccccat 22320  
 ctctacaaaa aaaattaaat aaataacaaa attagccagt cgtggtggca catgcctgta 22380  
 gctccagcta ctcagaaggc tgagatggga ggatcaactg agcccaagag ttcaagcctt 22440  
 cagtgaacca tgcttgacc actgcactcc agcctgggag acagagcaag atcctgtctc 22500  
 acaaaaaaca aaaaatagta tatttaattg cctaataatat accacgtatg ttgagtgaga 22560  
 cacacaaggt ccctgacctt tgaacgctta cttttataa gggagacaca caattaagca 22620  
 agcagtaatc atagagtaag ggctaagtta tagaaagtat tagagtacca tgaaatttta 22680  
 tatcatgtag cctgtgctag tcagggaatg cattctgaag caagtgtact tgacctgata 22740  
 actgaggact gtgtcagagt catttaggca aaggagaaaag gagtgagtgt tccaggcaaa 22800  
 aggaaaagca tgtaatggcc tgaaggtaaa ggaatatggt tcaaggaaact ggaagaagtg 22860  
 cagaatggta aggggctcag agatgatggg gagaggtagg caggggagag agcatgcccc 22920  
 gctgcgaaag ccatacctaag gagtttggac tcttttgaag gcacaggagt tgaaaagggg 22980  
 agcagaaata agataggggt gatgttttag aagaaatact ctgactctag tgtggaagat 23040  
 gggtgagaag gaggcacagc tggacacgaa gagaccattg gacatctctt acgatcctat 23100  
 gtggctaaga gctgataatg gcctgcagtg gagaaaagcc aggtatagaa aggagtgagc 23160  
 agattctaca actttctaag aggcagaatc ataagtactg ggtgattaac tgggtatggg 23220  
 gacaaggcaa aagaaagaag aaaagaggaa ggaggcgccc ttcattttta taagaactac 23280  
 agtgggagag cttctggttt caaggaaagt gacaaattca gttttggatg tgctgtattt 23340  
 gatgtcctcc tatgaaacaa ccagttttaga aatctagctg tcaaataagac ctatggatct 23400  
 gagcccagta aagaggcttg ggctccacat atggatttgg gaatcattag tatacagagg 23460  
 ttgttggtggt taaacagcaa ctggtataga gtgagacatg agagatgagg acagaaatat 23520  
 ggagaagaca aacatataaa ggaagaaggg gaataaccag caatgagtta gaagaagtga 23580  
 ccagagaagc agaaggagaa ccaagccat aaaaggtcac agaagccaaa gagcagccac 23640  
 aggggagatc accccatggg taggcgaaag ctggcattag gactccagca catcagcaaa 23700  
 gcttggtctt gtggcaccac caacttggag aaacaatact tggaggaaaa tgtgctattt 23760  
 caaagaaagc atccttagaa aaaaccaggc caatgttgaa ctttcttaca tgtactaagt 23820  
 ttttaagtac acacttgga ggaagggtgcc atcatctctt cagatgtgag aggctccagc 23880

## DOC0216USSEQ2.txt

gtcttagtct ggtcatgagt gcgcaactct atggaaggct tctgggaggt caaggaagat 23940  
 gaaacctaaa tatgccatt ggatgtagga gcaaggaggg cattagagac attgatgaaa 24000  
 gcattttcag gagatggagt gagcagtcag agcacattgg gaggaagtag agactgcaaa 24060  
 ggcagacaac tcttgatggt gaggaagatg agaaagcaag aaaagaaaga aaggagcata 24120  
 ggggaggggc acaggggaag agacttgagc gtgcttaatg caggtggaag gaagcaggta 24180  
 gagagtagga gatttcatat gaaagagaca gtttctcttg ccctgcattg taggaaggaa 24240  
 ggggcacact gaagttcagc cccagtgatc agctatttaa catctctgag cctctgcttc 24300  
 tgtaaaatga gaaccataag cctactgttg tggggattac aggtaacaga tggaaagaac 24360  
 tcagccagaa gcttcagagt cactctcatg gcttgtcatg ttgatgttct ttctaataatt 24420  
 atttgtttct cagtaaatta aatagttaga gatagggtgtg gactgagggg agacaggagg 24480  
 ataagggggt atttgcaccc tgagaatttg tgatgtccat tttgattcat gacttggcaa 24540  
 taactcaggt atttttgttc ttcaccagca acacattaca tttggtctct accacaaaaa 24600  
 cggaggtgat cccacctctc attgagaaca ggcagtcctg gtcagtttgc aagcaagtct 24660  
 ttcctggcct gaattactgc acctcaggcg cttactccaa cgccagctcc acagactccg 24720  
 cctcctacta tccgctgacc ggggacacca ggtagagat gctcagtgcc tgaccagca 24780  
 ttttctcacc ttccacatca tggccacctg gcatggcaca ggaaaaata ctctgtgttg 24840  
 taagaccctg tactagcct tctgggttg caccatcttt gggatttaa agcagggtcc 24900  
 tctggccaac acattgggtg tcaccttttg cttccttggt catgggatgg gatcacagca 24960  
 cagatcccaa tttgctccta attcagtgtc catgtttctg agcctccaga cccatcgcta 25020  
 tgagcttcct ggagcccacc aatgtgcttg aagccttcac cgtacttagg tggctccctg 25080  
 tcttcagccc ccaagttcca gtgcttggtc tcagctttgc tgaaacaacc agccaactcc 25140  
 tgctctgctt gtccaaagtc ttgggaatcc tgggtgtctgc ccttgccctg ggttcttgta 25200  
 ggactgaggg atcaaaaaga tcatcttagt taagggaag agacaatgtt aaaataagga 25260  
 ccatatTTTT gttgcatttg aggctgaatt gttttgggaa cataatcacc atccttgaaa 25320  
 gctctaacat tatgactgt cttcattgta atgtcttttag attagagctg gaactgaggc 25380  
 ctacaggaga gattgagcag tattctgtca gcgcaacctg tgagctccag agagaggaca 25440  
 gagccttggt ggataccctg aagtttgtaa ctcaagcaga aggtgagtat tcaaacaca 25500  
 gctgcctcat ctctgctcgc agtctcaggt tcagaattca tgaggagaag acatgtaatt 25560  
 taacctatTTT aacaaatagg ttaactgagt acccactaag cggcaggcct attctaagac 25620  
 ctgggttaac tgagtacca ataagcggca ggcctattct aagacctggg gctagaacag 25680  
 tgaacaatgg agtctctgcc ttcattggaag ttacagtga caaccaaca agttaatatt 25740  
 tggaaatatca gataagtact gaggaggaaa acagagcgta gactggtcta tggagggcta 25800  
 ggagtaggag ggaggaagaa gggcagggaa agcagtgcatt ttggaataat aagggaaggt 25860  
 ctccttggtg aagtgagcat aaggagacct atcagaaata agaggagaag ccgtgtggta 25920



## DOC0216USSEQ2.txt

agactgttaa caggcagagg gaccagcaag tgcaaaggcc ctgaggctga cacactacta 25980  
 ccatgtttca aggaaaggaa ggaagacagt atggctggag cagaaagacc agggagaaaa 26040  
 gaggtagaag atgaggacag agagatatgg agagggtgaag gaaggataat ctcataggcc 26100  
 atggtaagaa ctttggtttt ttctatgaat taaacgaaag ccattgggga gtcctcatga 26160  
 tttgatttat gtttatgttg agaaaagact atgggcagac aagggcagag aaactaatat 26220  
 gtaggttatc acaataatcc aggcaggaat cagtgttggt ttggatcagg gcaatggcag 26280  
 aagagatatg agaaggggat ggattctggc catattttga agattaggct gacaagattt 26340  
 gctgatacag tggatgttga gtgtaagagg aaaaggggaa tgaagacaaa cctaaggttt 26400  
 ttggcccggg caactgaaaa atggaacttc catttattga gatggaaagg gctactggag 26460  
 gagcaggttt tagggaatgg gagaaattta ggtgttcact ttggaaaaaa aattatatag 26520  
 ggatagcgag gagcaggttt tagggaatgg ggcacattta ggtgttcact ttggaaaaat 26580  
 ttttatatag ggatagcata tcacagaatt aaactaggaa gaaaatccca tgatagaaag 26640  
 cactggagga gcagggcacg ctggggaaat agtgtttggg aaacattgtt ttacgaagga 26700  
 tataaaatgg accagcctat ggattgaagg acgcccggga atcttgttac aaagaaaggg 26760  
 ggagttgggg agatggagcc cagggcaagg gcagcaagga accaggacag gcatcttggg 26820  
 tagaaagtaa tatagagatg tcgtgtcttc ctggcccaga agggctgcga gcctttgctg 26880  
 ttccacaaac aagctaagtg ctccccattt cagggccttt gcattcctga ctttctgcct 26940  
 ggaatgtgct cctcccagaa ctacagctgg ctccaacctc ttttcattct ggtctctgcc 27000  
 cacatgtgcc cttatcagag agaattttct tgaccaccaa gtatgaaata acatttcttc 27060  
 tatccctttc ttttatcctt gtatccagtt ttactcttct tcataacatt cattaccatc 27120  
 tgacatgagc aagttacttg tttattgcct gtacacctcc ccactagaa ggtaagcccc 27180  
 atgaaagcaa ggattcccca gtaccaagag cagtgccag cacacaatag gtcataaca 27240  
 ggcaatccat aaagacttgc atacatgaac acaactgagt ttaaaattat cagtaaatga 27300  
 gaccatttaa aaaattttta tgagaaaaaa aaaattcagt aaaatcctga actgtgtttt 27360  
 tgtttaagca cattgattcc ttggagtttc tctacctttt cctctctttc cttccaaaac 27420  
 atagcttctt tatttattta tttatttatt tgtttgttta tttatttatt tatttattta 27480  
 tttatttttt gagatggagt ctgctctttt tgcccaggct gcagtgcagt ggtgccatct 27540  
 cggctcactg caagccccgc ctcccgggtt catgccattc tcctgcctca gcctcctgag 27600  
 tagctgggac tacaggcacc caccaacgcg cccggctaatt tttttgtatt tttagtagag 27660  
 acgggggttc accatgttag ccagaatggt cttgatctcc tgacctcatg atctgcccgc 27720  
 cttggcctcc caaagtgtg ggattacagg tgtgagccac cgcaccggc ccaaaacata 27780  
 gcttcttacc acacatctct tgattctctt atacactcgt ccagggtcga agcagactga 27840  
 ggctaccatg acattcaaata ataatcggca gagtatgacc ttgtccagt aagtccaaat 27900  
 tccggatttt gatgttgacc tcggaacaat cctcagagtt aatgatgaat ctactgaggg 27960

## DOC0216USSEQ2.txt

caaaacgtct tacagactca ccctggacat tcagaacaag aaaattactg aggtcgccct 28020  
catggggccac ctaaggtaaa gaaggccgag ggtcatctga cctgcactgc aggcctgggt 28080  
ggttcttttc attattcctc ttccacttca tacctgacca agccatgttc tcccctagtc 28140  
tacaatcaga gtggcagaga gagccctcaa caatTTTTTT tttttttgag atggagtctc 28200  
actctgtcac caggctggag tgcagtggca caatctcggc tcactgcaac ctccgcctcc 28260  
cgagttcaag tgattctcct gcttaagcct cccaaggagc tggaactata ggtgcatgcc 28320  
accacacca gctaattttt atatttttag tagagacagg gtttcaccat attgaccagg 28380  
atggtctcga tctcctgacc tcgtgatcca cctgccttgg cctcccaaag tgctgggatt 28440  
acaggtgtaa gccactgcac ccggccaagc tctcaacatt ttaaccctct gcgcatgtcc 28500  
agttggattt tcctaccatt tatcaggcac ttactattca tgtatcaagc acagtgtctg 28560  
gtgctttaaa gaaattatct cggtcctcac aataaaactgc gaggtcactg tgagttttcc 28620  
tgtttcatgg ataaggaaat ggtagctcag aggggttaaa tcatttggtc aaaatcacag 28680  
agctagtaaa tagcagagca ggattcaaac agttttcaaa aaacttctct ttctcctaaa 28740  
cctgtttgca aagtccttaa tttgtgctga atgttggctt tagaagtga tgagtttgat 28800  
ctgtggctgt ttctctgaac catccttgta tctggttttg atcaccacaa atggaacttc 28860  
tgtttaatcc tgcatactc cattgaaagg acaaaatcat tggtgccaac tgattttctt 28920  
taccatagtt gtgacacaaa ggaagaaaga aaaatcaagg gtgttatttc cataccccgt 28980  
ttgcaagcag aagccagaag tgagatcctc gccactgggt cgctgcca actgcttctc 29040  
caaatggact catctgctac agcttatggc tccacagttt ccaagagggt ggcattggcat 29100  
tatggtatgt gtctcttccc ctgtgtgagc acttccaaag taatgcagggt gttgagacct 29160  
gtggttacag gctgaactag taccattcac aactatttcc tacgtatttt cagatgaaga 29220  
gaagattgaa tttgaatgga acacaggcac caatgtagat accaaaaaaa tgacttccaa 29280  
tttccctgtg gatctctccg attatcctaa gagcttgcat atgtatgcta atagactcct 29340  
ggatcacaga gtccctcaaa cagacatgac tttccggcac gtgggttcca aattaatagt 29400  
tgtaagtatg agtctgccag tcaataaata catggatata agtgctaatt acatcctcaa 29460  
ctctgagcta ggtgcaggaa ggtttccaaa gatgtataag gcatgcttcc ttccccccag 29520  
ggaattcttg gggagaaaaa aaaactttca caagtgtgta gttaccaggt tacacaaagc 29580  
tgaatgtgat acatatcaaa gagatgctac taagtagaac agttctttgc ctagtggat 29640  
caaaggaagc ttcaggacac cagctaggag gctgactatg ttagacattc cttttataaa 29700  
tatggacagt gatcagtgc tggcaacgaa gattcataat tttctgttat ttatttttaa 29760  
ctttcagtgc attgtccagc ttaataatta acttgtcaaa tcggtatttt tgcctaattgt 29820  
tcattgctct ttgaggctca tccaagccca ttaccttaaa aatctcctgt cattttgtag 29880  
gcaatgagct catggcttca gaaggcatct gggagtcttc cttataccca gactttgcaa 29940  
gaccacctca atagcctgaa ggagttcaac ctccagaaca tgggattgcc agacttcac 30000

## DOC0216USSEQ2.txt

atcccagaaa acctcttctt aaaaaggtaa aagaagaaag cagcaaggct tcttgaacca 30060  
tgcaaagtaa atgaaagatt ttacatagca tgatttagac attttttttaa attttttaaag 30120  
gaaataattt aagcatttta aggagattaa taactatagc acaaacactg tggcatcttt 30180  
gcattagtaa acatgagaac accaaccctg tcaggaagaa tctaagaaag tcattagagg 30240  
attctggtac tttcaccta agatatttta ttcagtacaa cctgttataa gcaaattctc 30300  
cctctgactg tgaagaattc agaatggcta gaggcgttat tgactacagg cttgctgtta 30360  
agctagagag agtcagaaca gccattgagc actaaatgga ggcagcattc tgagaaaata 30420  
ctttaacca ggcttactga cttccatacc tatgttcttt ccacaaatca agttgtctca 30480  
attcagttta gcaaatttgt atcaagtatc ccctatgtgc aaaatgctag actaggtaca 30540  
gtgagaagat agaaactggg taaggatatag ccttttcttt caagaagata ccatggagac 30600  
atcaacaaat gagaaataat taattatata agcaaaatta tgacatgctc tttgagaaag 30660  
gtgcaaggga ctatgtaact gtaagaatga gacaaattgg ctatgactta ggtgggatgg 30720  
taatgataag gagtggccct tagaagagct ttgtcaggat ttgagtgttt gacaggtgga 30780  
ggtaaaagca aaggggtcca ggcattaggag tagcaciaag aaaagtgcag agtggctttg 30840  
ggaatggggc aagtacaata ttgttgtgaa ggtcagaggc agagaacttt gaatgactga 30900  
tgtctgactg tggggatgtt atctttgttg ttcatttcag cgatggccgg gtcaaata 30960  
ccttgaacaa gaacagtttg aaaattgaga ttcctttgcc ttttgggtggc aaatcctcca 31020  
gagatctaaa gatgttagag actgttagga caccagccct ccacttcaag tctgtgggat 31080  
tccatctgcc atctcgagag ttccaagtcc ctacttttac cattccaag ttgtatcaac 31140  
tgcaagtgcc tctcctgggt gttctagacc tctccacgaa tgtctacagc aacttgtaca 31200  
actggtccgc ctcctacagt ggtggcaaca ccagcacaga ccatttcagc cttcgggctc 31260  
gttaccacat gaaggctgac tctgtggttg acctgctttc ctacaatgtg caaggtagac 31320  
tatgctcagg taaagggtgc accgggctag ttcatggcag gctctaagag gagagcctcc 31380  
tccagggagg aaaggacttt ggctttctag cagataatct tccttgctac ttggaagtct 31440  
tttattttat tcaacaaata gaaatattta ttaaacaatat cacgtgtatt aaatattcta 31500  
gtaggcagta acagaaagta gacagataag ccagcaatta taattcagtg tgagaggtgc 31560  
tatgataaag tgtagtatat aagtataagg tagagtggaa gcactcaaca agggaaaccta 31620  
aacaagcct gtggtggtca ggcaaggctt cctggaggaa tgccttttgc tatcagattt 31680  
tatctttgca ttacagatgg aggagtctat tgcacaattg gccagaaaa atggggcttt 31740  
attattgaaa gactttcaac atagagattg ctctggaaat gtactgctta atttaacca 31800  
tgtcttttca tttttatgtt aggatctgga gaaacaacat atgaccacaa gaatacgttc 31860  
acactatcat atgatgggtc tctacgccac aaatttctag attcgaatat caaattcagt 31920  
catgtagaaa aacttggaac caaccagtc tcaaaagggt tactaatatt cgatgcatct 31980  
agttcctggg gaccacagat gtctgcttca gttcatttgg actccaaaaa gaaacagcat 32040  
ttgtttgtca aagaagtcaa gattgatggg cagttcagag tctcttcgtt ctatgctaaa 32100

## DOC0216USSEQ2.txt

ggcacatatg gcctgtcttg tcagagggat cctaacactg gccggctcaa tggagagttcc 32160  
 aacctgaggt ttaactcctc ctacctccaa ggcaccaacc agataacagg aagatatgaa 32220  
 gatggaaccc tctccctcac ctccacctct gatctgcaaa gtggcatcat taaaaatact 32280  
 gcttccttaa agtatgagaa ctacgagctg actttaaaat ctgacaccaa tgggaagtat 32340  
 aagaactttg ccactttctaa caagatggat atgaccttct ctaagcaaaa tgcactgctg 32400  
 cgttctgaat atcaggctga ttacgagtca ttgaggttct tcagcctgct ttctggatca 32460  
 ctaaattccc atggtcttga gttaaatgct gacatcttag gcactgacaa aattaatagt 32520  
 ggtgctcaca aggcgacact aaggattggc caagatggaa tatctaccag tgcaacgacc 32580  
 aacttgaagt gtagtctcct ggtgctggag aatgagctga atgcagagct tggcctctct 32640  
 ggggcatcta tgaaattaac aacaaatggc cgcttcaggg aacacaatgc aaaattcagt 32700  
 ctggatggga aagccgccct cacagagcta tctactggga gtgcttatca ggccatgatt 32760  
 ctgggtgtcg acagcaaaaa cattttcaac ttcaagggtca gtcaagaagg acttaagctc 32820  
 tcaaatgaca tgatgggctc atatgctgaa atgaaatttg accacacaaa cagtctgaac 32880  
 attgcaggct tatcactgga cttctcttca aaacttgaca acatttacag ctctgacaag 32940  
 ttttataagc aaactgttaa ttacagcta cagccctatt ctctggtaac tacttttaac 33000  
 agtgacctga aatacaatgc tctggatctc accaacaatg ggaaactacg gctagaaccc 33060  
 ctgaagctgc atgtggctgg taacctaaaa ggagcctacc aaaataatga aataaaacac 33120  
 atctatgcc a tctcttctgc tgccttatca gcaagctata aagcagacac tgttgctaag 33180  
 gttcaggggtg tggagtttag ccatcggctc aacacagaca tcgctgggct ggcttcagcc 33240  
 attgacatga gcacaaacta taattcagac tctactgcatt tcagcaatgt cttccgttct 33300  
 gtaatggccc cgtttaccat gaccatcgat gcacatacaa atggcaatgg gaaactcgct 33360  
 ctctggggag aacatactgg gcagctgtat agcaaattcc tgttgaaagc agaacctctg 33420  
 gcatttactt tctctcatga ttacaaaggc tccacaagtc atcatctcgt gtctaggaaa 33480  
 agcatcagtg cagctcttga acacaaagtc agtgccttgc ttactccagc tgagcagaca 33540  
 ggcacctgga aactcaagac ccaatttaac aacaatgaat acagccagga cttggatgct 33600  
 tacaacacta aagataaaat tggcgtggag cttactggac gaactctggc tgacctaaact 33660  
 ctactagact ccccaattaa agtgccactt ttactcagtg agcccatcaa tatcattgat 33720  
 gcttttagaga tgagagatgc cgttgagaag ccccaagaat ttacaattgt tgcttttgta 33780  
 aagtatgata aaaaccaaga tgttctactc attaacctcc cattttttga gaccttgcaa 33840  
 gaatattttg agaggaatcg acaaaccatt atagtgttac tggaaaacgt acagagaaac 33900  
 ctgaagcaca tcaatattga tcaatttgta agaaaataca gagcagccct gggaaaactc 33960  
 ccacagcaag ctaatgatta tctgaattca ttcaattggg agagacaagt ttcacatgcc 34020  
 aaggagaaac tgactgctct cacaaaaaag tatagaatta cagaaaatga tatacaaatt 34080  
 gcattagatg atgccaaaat caactttaat gaaaaactat ctcaactgca gacatatatg 34140

## DOC0216USSEQ2.txt

atacaatttg atcagtatat taaagatagt tatgattttac atgattttgaa aatagctatt 34200  
 gctaataatta ttgatgaaat cattgaaaaa ttaaaaagtc ttgatgagca ctatcatatc 34260  
 cgtgtaaatt tagtaaaaaac aatccatgat ctacattttgt ttattgaaaa tattgatttt 34320  
 aacaaaagtg gaagtagtac tgcacacctg attcaaaatg tggataactaa gtaccaaatac 34380  
 agaatccaga tacaagaaaa actgcagcag cttagagac acatacagaa tatagacatc 34440  
 cagcacctag ctggaaagtt aaaacaacac attgaggcta ttgatgttag agtgctttta 34500  
 gatcaattgg gaactacaat ttcatttgaa agaataaatg acattcttga gcatgtcaaa 34560  
 cactttgtta taaatcttat tggggatttt gaagtagctg agaaaatcaa tgccttcaga 34620  
 gccaaagtcc atgagttaat cgagaggat gaagtagacc aacaaatcca ggttttaatg 34680  
 gataaattag tagagttggc ccaccaatac aagttgaagg agactattca gaagctaagc 34740  
 aatgtcctac aacaagttaa gataaaagat tactttgaga aattgggttg atttattgat 34800  
 gatgctgtca agaagcttaa tgaattatct tttaaaacat tcattgaaga tgtaacaaa 34860  
 ttccttgaca tgttgataaa gaaattaaag tcatttgatt accaccagtt tgtagatgaa 34920  
 accaatgaca aaatccgtga ggtgactcag agactcaatg gtgaaattca ggctctggaa 34980  
 ctaccacaaa aagctgaagc attaaaactg tttttagagg aaaccaaggc cacagttgca 35040  
 gtgtatctgg aaagcctaca ggacaccaa ataacctta tcatcaattg gttacaggag 35100  
 gctttaagtt cagcatcttt ggctcacatg aaggccaaat tccgagagac cctagaagat 35160  
 acacgagacc gaatgtatca aatggacatt cagcaggaac ttcaacgata cctgtctctg 35220  
 gtaggccagg tttatagcac acttgtcacc tacatttctg attggtggac tcttgctgct 35280  
 aagaacctta ctgactttgc agagcaatat tctatccaag attgggctaa acgtatgaaa 35340  
 gcattggtag agcaagggtt cactgttcct gaaatcaaga ccatccttgg gaccatgcct 35400  
 gcctttgaag tcagtcttca ggctcttcag aaagctacct tccagacacc tgattttata 35460  
 gtccccctaa cagatttgag gattccatca gttcagataa acttcaaaga cttaaaaaat 35520  
 ataaaaatcc catccagggt tttccacacca gaatttacca tccttaacac cttccacatt 35580  
 ccttccttta caattgactt tgtagaaatg aaagtaaaga tcatcagaac cattgaccag 35640  
 atgctgaaca gtgagctgca gtggcccgtt ccagatatat atctcaggga tctgaagggtg 35700  
 gaggacattc ctctagcgag aatcaccttg ccagacttcc gtttaccaga aatcgcaatt 35760  
 ccagaattca taatcccaac tctcaacctt aatgattttc aagttcctga cttcacata 35820  
 ccagaattcc agcttccca catctcacac acaattgaag tacctacttt tggcaagcta 35880  
 tacagtattc tgaaaatcca atctcctctt ttcacattag atgcaaagtc tgacataggg 35940  
 aatggaacca cctcagcaaa cgaagcaggt atcgcagctt ccatcactgc caaaggagag 36000  
 tccaaattag aagttctcaa ttttgatttt caagcaaatg cacaactctc aaaccctaag 36060  
 attaatccgc tggctctgaa ggagtcagtg aagttctcca gcaagtacct gagaacggag 36120  
 catgggagtg aaatgctgtt ttttggaat gctattgagg gaaaatcaa cacagtggca 36180

## DOC0216USSEQ2.txt

agtttacaca cagaaaaaaaa tacactggag cttagtaatg gagtgattgt caagataaac 36240  
 aatcagctta ccctggatag caacactaaa tacttccaca aattgaacat ccccaaactg 36300  
 gacttctcta gtcaggctga cctgcgcaac gagatcaaga cactgttgaa agctggccac 36360  
 atagcatgga cttcttcttg aaaaggggtca tggaaatggg cctgccccag attctcagat 36420  
 gagggaaacac atgaatcaca aattagtttc accatagaag gaccctcac ttcctttgga 36480  
 ctgtccaata agatcaatag caaacaccta agagtaaacc aaaacttggt ttatgaatct 36540  
 ggctccctca acttttctaa acttgaaatt caatcacaag tcgattccca gcatgtgggc 36600  
 cacagtgttc taactgctaa aggcatggca ctgtttggag aaggggaaggc agagtttact 36660  
 gggaggcatg atgctcattt aaatggaaag gttattggaa ctttgaaaaa ttctcttttc 36720  
 ttttcagccc agccatttga gatcacggca tccacaaaca atgaaggga tttgaaagtt 36780  
 cgttttccat taaggttaac agggaagata gacttcctga ataactatgc actgtttctg 36840  
 agtcccagtg cccagcaagc aagttggcaa gtaagtgcta ggttcaatca gtataagtac 36900  
 aaccaaatt tctctgctgg aaacaacgag aacattatgg aggcccatgt aggaataaat 36960  
 ggagaagcaa atctggattt cttaaacatt cctttaacaa ttcctgaaat gcgtctacct 37020  
 tacacaataa tcacaactcc tccactgaaa gatttctctc tatgggaaaa aacaggcttg 37080  
 aaggaattct tgaaaacgac aaagcaatca tttgatttaa gtgtaaaagc tcagtataag 37140  
 aaaaacaaac acaggcattc catcacaat cctttggctg tgctttgtga gtttatcagt 37200  
 cagagcatca aatccttga caggcatttt gaaaaaaaca gaaacaatgc attagatttt 37260  
 gtcaccaaatt cctataatga aacaaaaatt aagtttgata agtacaagc tgaaaaatct 37320  
 cacgacgagc tccccaggac ctttcaaatt cctggatata ctgttccagt tgtcaatgtt 37380  
 gaagtgtctc cattcaccat agagatgtcg gcattcggct atgtgttccc aaaagcagtc 37440  
 agcatgccta gtttctccat cctaggttct gacgtccgtg tgccttcata cacattaatc 37500  
 ctgccatcat tagagctgcc agtccttcat gtccctagaa atctcaagct ttctcttcca 37560  
 gatttcaagg aattgtgtac cataagccat atttttattc ctgccatggg caatattacc 37620  
 tatgatttct cctttaaatt aagtgtcatc aactgaata ccaatgctga actttttaac 37680  
 cagtcagata ttgttgctca tctcctttct tcatcttcat ctgtcattga tgcactgcag 37740  
 tacaaattag agggcaccac aagattgaca agaaaaaggg gattgaagtt agccacagct 37800  
 ctgtctctga gcaacaaatt tgtggagggg agtcataaca gtactgtgag cttaccacg 37860  
 aaaaatatgg aagtgtcagt ggcaacaacc acaaaagccc aaattccaat tttgagaatg 37920  
 aatttcaagc aagaacttaa tggaaatacc aagtcaaac ctactgtctc ttcctccatg 37980  
 gaatttaagt atgatttcaa ttcttcaatg ctgtactcta ccgctaaagg agcagttgac 38040  
 cacaagctta gcttggaaag cctcacctct tacttttcca ttgagtcatc taccaaagga 38100  
 gatgtcaagg gttcggttct ttctcgggaa tattcaggaa ctattgctag tgaggccaac 38160  
 acttacttga attccaagag cacacggtct tcagtgaagc tgcagggcac ttccaaaatt 38220

## DOC0216USSEQ2.txt

gatgatattct ggaaccttga agtaaaagaa aatttttgctg gagaagccac actccaacgc 38280  
atatattccc tctgggagca cagtagcaaa aaccacttac agctagaggg cctctttttc 38340  
accaacggag aacatacaag caaagccacc ctggaactct ctccatggca aatgtcagct 38400  
cttgttcagg tccatgcaag tcagcccagt tccttccatg atttccctga ccttggccag 38460  
gaagtggccc tgaatgctaa cactaagaac cagaagatca gatggaaaaa tgaagtccgg 38520  
attcattctg ggtctttcca gagccaggct gagctttcca atgaccaaga aaaggcacac 38580  
cttgacattg caggatcctt agaaggacac ctaagggtcc tcaaaaatat catcctacca 38640  
gtctatgaca agagcttatg ggatttccta aagctggatg taaccaccag cattggtagg 38700  
agacagcatc ttcgtgtttc aactgccttt gtgtacacca aaaaccccaa tggctattca 38760  
ttctccatcc ctgtaaaagt tttggctgat aaattcatta ttcctgggct gaaactaaat 38820  
gatctaaatt cagttcttgt catgcctacg ttccatgtcc catttacaga tcttcagggt 38880  
ccatcgtgca aacttgactt cagagaaata caaatctata agaagctgag aacttcatca 38940  
tttgccctca acctaccaac actccccgag gtaaaattcc ctgaagttga tgtgttaaca 39000  
aaatattctc aaccagaaga ctccttgatt cccttttttg agataaccgt gcctgaatct 39060  
cagttaactg tgtcccagtt cagcgttcca aaaagtgttt cagatggcat tgctgctttg 39120  
gatctaaatg cagtagccaa caagatcgca gactttgagt tgcccaccat catcgtgcct 39180  
gagcagacca ttgagattcc ctccattaag ttctctgtac ctgctggaat tgtcattcct 39240  
tcctttcaag cactgactgc acgctttgag gtagactctc ccgtgtataa tgccacttgg 39300  
agtgccagtt tgaaaaacaa agcagattat gttgaaacag tcctggattc cacatgcagc 39360  
tcaaccgtac agttcctaga atatgaacta aatggtaaga aatatcctgc ctctctctct 39420  
agatactgta ttttttcaat gagagttatg agtaaataat tatgtattta gttgtgagta 39480  
gatgtacaat tactcaatgt caaaaaattt taagtaagaa aagagataca tgtataccct 39540  
acacgtaaaa accaaactgt agaaaatcta gtgtcattca agacaaacag ctttaaagaa 39600  
aatggatttt tctgtaatta ttttaggact aacaatgtct tttaactatt ttttttaaaa 39660  
taagtgtgag ctgtacattg catattttta acacaagtga aatatctggt taggatagaa 39720  
ttctcccagt tttcacaatg aaaacatcaa cgtcctactg ttatgaatct aataaaatac 39780  
aaaatctctc ctatacagtt ttgggaacac acaaaatcga agatggtacg ttagcctcta 39840  
agactaaagg aacatttgca caccgtgact tcagtgcaga atatgaagaa gatggcaaat 39900  
atgaaggact tcagtatgga gctttttattg aattgaaacc ttataccttt tgaaaactca 39960  
ttgtgatttt cttcatctcc atacccttt cgtagatagct catctgtttt tctgctttca 40020  
gggaatggga aggaaaagcg cacctcaata tcaaaagccc agcgttcacc gatctccatc 40080  
tgcgctacca gaaagacaag aaaggcatct ccacctcagc agcctcccca gccgtaggca 40140  
ccgtgggcat ggatatggat gaagatgacg actttttctaa atggaaactc tactacagcc 40200  
ctcaggtaaa taccacctaa tgagtgcac gcccccaga gcgagtggag aattggggca 40260

## DOC0216USSEQ2.txt

gatacattta attcaggacc aaatattcag agattcccca aactagggtga aagacaggcg 40320  
gtaagcaact tcttctctga ggaaatattc tctagaaagt attacaatga gtccttgatt 40380  
gattttaatg tttagatgca cacatgacat cccatcagca ctattattta ttaattctgg 40440  
gcaaattccag gaagatgagg gttatacctc atcatctaaa tcataggcaa gctcagccat 40500  
aggcagggta tatttttcag agaggactgg tttctgtagt atttaaaact ttaaaattct 40560  
tccccacaat agaattgcta gatgagatac atcaaaattcc tctcatgtca tttacaagct 40620  
ctgccagggc caaatcaagg gtgacattac cagaggagaa gaccaaacad ggttctatga 40680  
ctgttactaa aagtttgta tgggcttgga gaatgcgtac tgatgttggg attctgggtc 40740  
tctgcagggt gggctccaac ttgccttttt tgctatttct tcttttccta tctgtcattt 40800  
cctgactctt cttctctctc ctcttctttc tcttcccccc actcctcttc cagttttcag 40860  
tcctaggaag gctttaattt taagtgtcac aatgtaaatg acaaacagca agcgtttttg 40920  
ttaaattcctt tctggggcat gtgataaaga gaaattaaca acagtagact tatttaacca 40980  
taaaacaaac acatgaactg acatatgaaa gataaatccc tttcagtata tgaaagattc 41040  
tctgatcttt atttttaact gctaataaag ttttagtgta ctatatttg taattggagt 41100  
aattgaaaac atgttatttt tttttttctc tctgtttagt cctctccaga taaaaaactc 41160  
accatattca aaactgagtt gaggggtccg gaatctgatg aggaaactca gatcaaagtt 41220  
aattgggaag aagaggcagc ttctggcttg ctaacctctc tgaaagacaa cgtgcccag 41280  
gccacagggg tcctttatga ttatgtcaac aagtaccact gggaacacac agggctcacc 41340  
ctgagagaag tgtcttcaaa gctgagaaga aatctgcaga acaatgctga gtgggtttat 41400  
caagggggcca ttaggcaaatt tgatgatatc gacgtgaggt tccagaaagc agccagtggc 41460  
accactggga cctaccaaga gtggaaggac aaggcccaga atctgtacca ggaactgttg 41520  
actcaggaag gccaagccag tttccagggg ctcaaggata acgtgtttga tggcttggt 41580  
cgagttactc aagaattcca tatgaaagtc aagcatctga ttgactcact cattgatttt 41640  
ctgaacttcc ccagattcca gtttccgggg aaacctggga tatacactag ggaggaactt 41700  
tgcactatgt tcataaggga ggtagggacg gtactgtccc aggtatattc gaaagtccat 41760  
aatggttcag aaatactgtt ttcctatttc caagacctag tgattacact tcctttcgag 41820  
ttaaggaaac ataaactaat agatgtaatc tcgatgtata gggaactgtt gaaagattta 41880  
tcaaaagaag cccaagaggt atttaaagcc attcagtctc tcaagaccac agaggtgcta 41940  
cgtaatcttc aggacctttt acaattcatt ttccaactaa tagaagataa cattaaacag 42000  
ctgaaagaga tgaaatttac ttatcttatt aattatatcc aagatgagat caacacaatc 42060  
ttcagtgatt atatccata tgtttttaaa ttgttgaaag aaaacctatg ccttaattct 42120  
cataagttca atgaatttat tcaaaacgag cttcaggaag cttctcaaga gttacagcag 42180  
atccatcaat acattatggc cttcgtgaa gaatattttg atccaagtat agttggctgg 42240  
acagtgaat attatgaact tgaagaaaag atagtcagtc tgatcaagaa cctgttagtt 42300



## DOC0216USSEQ2.txt

gctcttaagg acttccattc tgaatatatt gtcagtgccct ctaactttac ttcccaactc 42360  
 tcaagtcaag ttgagcaatt tctgcacaga aatattcagg aatatcttag catccttacc 42420  
 gatccagatg gaaaagggaa agagaagatt gcagagcttt ctgccactgc tcaggaaata 42480  
 attaaaagcc aggccattgc gacgaagaaa ataatttctg attaccacca gcagttttaga 42540  
 tataaactgc aagatTTTTc agaccaactc tctgattact atgaaaaatt tattgctgaa 42600  
 tccaaaagat tgattgacct gtccattcaa aactaccaca ctttctgat atacatcacg 42660  
 gagttactga aaaagctgca atcaaccaca gtcatgaacc cctacatgaa gcttgctcca 42720  
 ggagaactta ctatcatcct ctaattttttt aaaagaaatc ttcatttatt cttcttttcc 42780  
 aattgaactt tcacatagca cagaaaaaat tcaactgcc tatattgata aaaccataca 42840  
 gtgagccagc cttgcagtag gcagtagact ataagcagaa gcacatatga actggacctg 42900  
 caccaaagct ggcaccaggg ctcggaaggt ctctgaactc agaaggatgg ctttttttgc 42960  
 aagttaaaga aaatcaggat ctgagttatt ttgctaaact tgggggagga ggaacaaata 43020  
 aatggagtct ttattgtgta tcataccact gaatgtggct ctttgtatt gaaagacagt 43080  
 gaaacgaggg cattgataaa atgttctggc acagcaaaac ctctagaaca catagtgtga 43140  
 ttttaagtaac agaataaaaa tggaaacgga gaaattatgg agggaaatat tttgcaaaaa 43200  
 tatttaaaaa gatgaggtaa ttgtgtttttt ataattaaat attttataat taaaatatttt 43260  
 ataattaaaa tattttataat taaatattttt ataattaaaa tattttataat taaatattttt 43320  
 ataattaaag tattttataat taaatattttt ataattaaaa tattttataat taaatattttt 43380  
 ataattaaaa tattttataat taaatattttt ataattaaaa tattttataat taaatattttt 43440  
 ataatt 43445

<210> 335  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 335  
 tctgtaagac aggagaaaga 20

<210> 336  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 336  
 atttcctctt ctgtaagaca 20

<210> 337  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense oligonucleotide  
  
 <400> 337  
 gatgccttac ttggacagac 20  
  
 <210> 338  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 338  
 agaaatagct ctccaagga 20  
  
 <210> 339  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 339  
 gtcgcatctt ctaacgtggg 20  
  
 <210> 340  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 340  
 tcctccatac cttgcagttg 20  
  
 <210> 341  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 341  
 tggctcatgt ctacatatt 20  
  
 <210> 342  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 342  
 cagttgaaat gcagctaatg 20  
  
 <210> 343  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Antisense Oligonucleotide  
 <400> 343  
 tgcagactag gagtgaaagt 20  
 <210> 344  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 344  
 aggaggatgt cctttttattg 20  
 <210> 345  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 345  
 atcagagcac caaaggaat 20  
 <210> 346  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 346  
 ccagctcaac ctgagaattc 20  
 <210> 347  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 347  
 catgacttac ctggacatgg 20  
 <210> 348  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 348  
 cctcagcgga cacacacaca 20  
 <210> 349  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 349 gtcacatccg tgcctggtgc	20
<210> 350 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 350 cagtgcctct gggacccac	20
<210> 351 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 351 agctgcagtg gccgatcagc	20
<210> 352 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 352 gacctcccca gccacgtgga	20
<210> 353 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 353 tctgatcacc atacattaca	20
<210> 354 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 354 atttcccact gggactctc	20
<210> 355 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	

<400> 355  
 ggctgaagcc catgctgact 20  
 <210> 356  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 356  
 gttggacagt cattcttttg 20  
 <210> 357  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 357  
 cacttggttg acagtcattc 20  
 <210> 358  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 358  
 attttaaatt acagtagata 20  
 <210> 359  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 359  
 ctgttctcca cccatatcag 20  
 <210> 360  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 360  
 gagctcatatc ctgtcccaga 20  
 <210> 361  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 361

ttcaagggcc actgctatca	DOC0216USSEQ2.txt	20
<210> 362		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 362		
ccagtatttc acgccaatcc		20
<210> 363		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 363		
ggcaggagga acctcgggca		20
<210> 364		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 364		
ttttaaaatt agaccaacc		20
<210> 365		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 365		
tgactgtttt aaaattagac		20
<210> 366		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 366		
cccagcaaac acaggtgaag		20
<210> 367		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 367		
gagtgtggtc ttgctagtgc		20

<210> 368  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 368  
 ctatgcagag tgtggtcttg 20

<210> 369  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 369  
 agaagatgca accacatgta 20

<210> 370  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 370  
 acacggtatc ctatggagga 20

<210> 371  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 371  
 tgggacttac catgcctttg 20

<210> 372  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 372  
 ggttttgctg ccctacatcc 20

<210> 373  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 373  
 acaaggagtc cttgtgcaga 20

<210> 374  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 374  
 atgttcactg agacaggctg 20  
  
 <210> 375  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 375  
 gaaggtccat ggttcatctg 20  
  
 <210> 376  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 376  
 attagactgg aagcatcctg 20  
  
 <210> 377  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 377  
 gagattggag acgagcattt 20  
  
 <210> 378  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 378  
 catgacctac ttgtaggaga 20  
  
 <210> 379  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 379  
 tggatttgga tacacaagtt 20  
  
 <210> 380



<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 380  
 actcaatata tattcattga 20  
  
 <210> 381  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 381  
 caaggaagca caccatgtca 20  
  
 <210> 382  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 382  
 atacttattc ctggtaacca 20  
  
 <210> 383  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 383  
 ggtagccaga acaccagtgt 20  
  
 <210> 384  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 384  
 actagaggta gccagaacac 20  
  
 <210> 385  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 385  
 accacctgac atcacaggtt 20  
  
 <210> 386  
 <211> 20

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 386  
 tactgtgacc tatgccagga 20  
  
 <210> 387  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 387  
 ggaggtgcta ctgttgacat 20  
  
 <210> 388  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 388  
 tccagacttg tctgagtcta 20  
  
 <210> 389  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 389  
 tctaagaggt agagctaaag 20  
  
 <210> 390  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 390  
 ccagagatga gcaacttagg 20  
  
 <210> 391  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 391  
 ggccatgtaa attgctcatc 20  
  
 <210> 392  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 392

aaagaaacta tcctgtattc

20

<210> 393

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 393

ttcttagtac ctggaagatg

20

<210> 394

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 394

cattagatac ctggacacct

20

<210> 395

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 395

gtttcatgga actcagcgca

20

<210> 396

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 396

ctggagagca cctgcaatag

20

<210> 397

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 397

tgaagggtag agaaatcata

20

<210> 398

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 398  
 ggaaactcac ttgttgaccg 20  
 <210> 399  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 399  
 aggtgcaaga tggtcctctg 20  
 <210> 400  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 400  
 tgcacagagg tgcaagatgt 20  
 <210> 401  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 401  
 cacaagagta aggagcagag 20  
 <210> 402  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 402  
 gatggatggt gagaaattac 20  
 <210> 403  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 403  
 tagacaattg agactcagaa 20  
 <210> 404  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide  
 <400> 404  
 atgtgcacac aaggacatag 20  
 <210> 405  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 405  
 acatacaaatt ggcaataggc 20  
 <210> 406  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 406  
 taggcaaagg acatgaatag 20  
 <210> 407  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 407  
 ttatgatagc tacagaataa 20  
 <210> 408  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 408  
 ctgagattac ccgcagaatc 20  
 <210> 409  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 409  
 gatgtatgtc atataaaaga 20  
 <210> 410  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>

<223> Antisense Oligonucleotide  
 <400> 410  
 tttccaatga cctgcattga 20  
 <210> 411  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 411  
 agggatgggc aatctggtag 20  
 <210> 412  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 412  
 ggctaataaa tagggtagtt 20  
 <210> 413  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 413  
 tcctagagca ctatcaagta 20  
 <210> 414  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 414  
 cctcctgggc ctgcagtcaa 20  
 <210> 415  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 415  
 catttgaca agtggttgtt 20  
 <210> 416  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 416  
 ctgacacacc atgttattat 20  
 <210> 417  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 417  
 ctttttcaga ctagataaga 20  
 <210> 418  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 418  
 tcacacttac ctcgatgagg 20  
 <210> 419  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 419  
 aagaaaatgg catcaggttt 20  
 <210> 420  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 420  
 ccaagccaat ctgagaaaga 20  
 <210> 421  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 421  
 aaatacacac ctgctcatgt 20  
 <210> 422  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 422  
 cttcacaat acacacctgc 20  
 <210> 423  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 423  
 agtggaagtt tggcttcatt 20  
 <210> 424  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 424  
 ttgctagctt caaagtggaa 20  
 <210> 425  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 425  
 tcaagaataa gctccagatc 20  
 <210> 426  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 426  
 gcatacaagt cacatgaggt 20  
 <210> 427  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 427  
 tacaaggtgt ttcttaagaa 20  
 <210> 428  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 428



atgcagccag gatgggccta	DOC0216USSEQ2.txt	20
<210> 429		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 429		
ttaccatatc ctgagagttt		20
<210> 430		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 430		
gcaaaggtag aggaaggtat		20
<210> 431		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 431		
aaggaccttc agcaaaggtta		20
<210> 432		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 432		
cataggagta catttatata		20
<210> 433		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 433		
attatgataa aatcaatttt		20
<210> 434		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 434		
agaaatttca ctagatagat		20

<210> 435  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 435  
 agcatatttt gatgagctga 20  
  
 <210> 436  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 436  
 gaaaggaagg actagcatat 20  
  
 <210> 437  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 437  
 cctctccaat ctgtagaccc 20  
  
 <210> 438  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 438  
 ctggataact cagacctttg 20  
  
 <210> 439  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 439  
 agtcagaaaa caacctattc 20  
  
 <210> 440  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 440  
 cagcctgcat ctataagtca 20

<210> 441  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 441  
 aaagaattac cctccactga 20  
  
 <210> 442  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 442  
 tctttcaaac tggctaggca 20  
  
 <210> 443  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 443  
 gcctggcaaa attctgcagg 20  
  
 <210> 444  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 444  
 ctacctcaaa tcaatatggt 20  
  
 <210> 445  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 445  
 tgctttacct acctagctac 20  
  
 <210> 446  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 446  
 acctgtgtg tctcactcaa 20  
  
 <210> 447

<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 447  
 atgcattccc tgactagcac 20  
  
 <210> 448  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 448  
 catctctgag ccccttacca 20  
  
 <210> 449  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 449  
 gctgggcatg ctctctcccc 20  
  
 <210> 450  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 450  
 gctttcgag ctgggcatgc 20  
  
 <210> 451  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 451  
 actcctttct atacctggct 20  
  
 <210> 452  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 452  
 attctgcctc ttagaaagtt 20  
  
 <210> 453  
 <211> 20

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 453  
 ccaagcctct ttactgggct 20  
  
 <210> 454  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 454  
 cactcatgac cagactaaga 20  
  
 <210> 455  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 455  
 acctcccaga agccttccat 20  
  
 <210> 456  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 456  
 ttcatatgaa atctcctact 20  
  
 <210> 457  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 457  
 tattttaattt actgagaaac 20  
  
 <210> 458  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 458  
 taatgtgttg ctggtgaaga 20  
  
 <210> 459  
 <211> 20  
 <212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 459

catctctaac ctggtgtccc

20

<210> 460

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 460

gtgccatgct aggtggccat

20

<210> 461

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 461

agcaaattgg gatctgtgct

20

<210> 462

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 462

tctggaggct cagaaacatg

20

<210> 463

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 463

tgaagacagg gagccaccta

20

<210> 464

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 464

aggattccca agactttgga

20

<210> 465

<211> 20

<212> DNA

<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 465  
cagctctaatt ctaaagacat 20

<210> 466  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 466  
gaataactcac cttctgcttg 20

<210> 467  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 467  
atctctctgt cctcatcttc 20

<210> 468  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 468  
ccaactcccc ctttctttgt 20

<210> 469  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 469  
tctgggccag gaagacacga 20

<210> 470  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 470  
tattgtgtgc tgggcactgc 20

<210> 471  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
 <223> Antisense oligonucleotide  
  
 <400> 471  
 tgcttcgcac ctggacgagt 20  
  
 <210> 472  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 472  
 ccttctttac cttaggtggc 20  
  
 <210> 473  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 473  
 gctctctctg ccactctgat 20  
  
 <210> 474  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 474  
 aacttctaaa gccaacattc 20  
  
 <210> 475  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 475  
 tgtgtcacia ctatggtaaa 20  
  
 <210> 476  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense oligonucleotide  
  
 <400> 476  
 agacacatac cataatgcca 20  
  
 <210> 477  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>



<223> Antisense Oligonucleotide  
 <400> 477  
 ttctcttcac ctgaaaatac 20  
 <210> 478  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 478  
 tgaggatgta attagcactt 20  
 <210> 479  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 479  
 agctcattgc ctacaaaatg 20  
 <210> 480  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 480  
 gttctcatgt ttactaatgc 20  
 <210> 481  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 481  
 gaattgagac aacttgattt 20  
 <210> 482  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 482  
 ccggccatcg ctgaaatgaa 20  
 <210> 483  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide

<400> 483 catagctcac cttgcacatt	20
<210> 484 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 484 cgggtgcaccc ttacctgag	20
<210> 485 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 485 tctccagatc ctaacataaa	20
<210> 486 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 486 ttgaatgaca ctagattttc	20
<210> 487 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 487 aaaatccatt ttctttaag	20
<210> 488 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 488 cagctcacac ttattttaaa	20
<210> 489 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	

<400> 489  
 gttcccaaaa ctgtatagga 20  
 <210> 490  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 490  
 agtccatac tgaagtcctt 20  
 <210> 491  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 491  
 caattcaata aaagctccat 20  
 <210> 492  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 492  
 gttttcaaaa ggtataaggt 20  
 <210> 493  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 493  
 ttcccatgcc ctgaaagcag 20  
 <210> 494  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 494  
 tggatattac ctgagggctg 20  
 <210> 495  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 495

ataaataata gtgctgatgg	DOC0216USSEQ2.txt	20
<210> 496		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 496		
ctatggctga gcttgccctat		20
<210> 497		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 497		
ctctctgaaa aatataccct		20
<210> 498		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 498		
ttgatgtatc tcattctagca		20
<210> 499		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 499		
tagaaccatg tttggtcttc		20
<210> 500		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 500		
tttctcttta tcacatgccc		20
<210> 501		
<211> 20		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Antisense Oligonucleotide		
<400> 501		
tatagtacac taaaacttca		20

<210> 502  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 502  
 ctggagagga ctaaacagag 20

<210> 503  
 <211> 568  
 <212> DNA  
 <213> H. sapiens

<220>

<221> misc\_feature  
 <222> 44, 99, 156, 468  
 <223> n = A,T,C or G

<400> 503  
 ccaaaagatt gattgactgt ccattcaaag ctacacgcaa tttntgatat acatcacgta 60  
 gttactgaaa aagctgcaat caacacagtt catggaccnc taccatgaag cttgctccag 120  
 gagaacttct atcattcctc taatttttta aaaganatct tcattttattc ttcttttcca 180  
 attgaacttt cacatagcac agaaaaaatt caaactgcct atattgataa aaccatacag 240  
 tgagccagcc ttgcagtagg cagtagacta taagcagaag cacatatgaa ctggacctgc 300  
 accaaagctg gcaccagggc tcggaaggct tctgaactca gaaggatggc attttttgca 360  
 agttaaagaa aatcaggatc tgagttatct tgctaaactt gggggaggag gaacaaataa 420  
 atggagtctt tattgtgtat cataccactg aatgtggctc atttgtanta aaagacagtg 480  
 aaacgagggc attgataaaa tgttctggca cagcaaaacc tctagaacac atagtgtgat 540  
 ttaagtaaca gaataaaaat ggaaacgg 568

<210> 504  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 504  
 acattttatc aatgccctcg 20

<210> 505  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 505  
 gccagaacat tttatcaatg 20

<210> 506  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 506  
 agaggttttg ctgtgccaga 20  
  
 <210> 507  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 507  
 ctagaggttt tgctgtgcca 20  
  
 <210> 508  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 508  
 tctagagggtt ttgctgtgcc 20  
  
 <210> 509  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 509  
 aatcacacta tgtgttctag 20  
  
 <210> 510  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 510  
 aaatcacact atgtgttcta 20  
  
 <210> 511  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 511  
 taaatcacac tatgtgttct 20  
  
 <210> 512

<211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 512  
 cttaaatacac actatgtggt 20  
  
 <210> 513  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 513  
 tattctgtta cttaaatacac 20  
  
 <210> 514  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 514  
 tggtagcctc agtctgcttc 20  
  
 <210> 515  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 515  
 agtctgcttc gcgccttctg 20  
  
 <210> 516  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 516  
 gcgccagggc cgaagaggaa 20  
  
 <210> 517  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 517  
 caggtatgag ctcaagctgg 20  
  
 <210> 518  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 518  
 catcctgaac atcaagaggg 20

<210> 519  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 519  
 gggcagtgtg atcgcttcaa 20  
  
 <210> 520  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 520  
 cacttgctct catcaaaggc 20  
  
 <210> 521  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 521  
 cacactggac gctaagagga 20  
  
 <210> 522  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 522  
 cgctgagcca cgcggtcaac 20  
  
 <210> 523  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 523  
 tgtccaaatt ctaccatggg 20  
  
 <210> 524  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 524  
 cagctgacct catcgagatt 20  
  
 <210> 525  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 525  
 gtcaagttcc tgatggtgtc 20  
  
 <210> 526  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 526  
 agctgcttct gatgggtgcc 20  
  
 <210> 527  
 <211> 20  
 <212> DNA



<213> H. sapiens  
 <400> 527  
 ggcatcatc attccggact 20  
 <210> 528  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 528  
 cctactatcc gctgaccggg 20  
 <210> 529  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 529  
 gggccaccta agttgtgaca 20  
 <210> 530  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 530  
 agaacatggg attgccagac 20  
 <210> 531  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 531  
 ctccacttca agtctgtggg 20  
 <210> 532  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 532  
 cagagcttgg cctctctggg 20  
 <210> 533  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 533  
 tggccgcttc agggaacaca 20  
 <210> 534  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 534  
 cagctgagca gacaggcacc 20  
 <210> 535  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 535

gggagagaca agtttcacat	DOC0216USSEQ2.txt	20
<210> 536		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 536		
gtactgcatc ctggattcaa		20
<210> 537		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 537		
gtgaggtgac tcagagactc		20
<210> 538		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 538		
ttgcagagca atattctatc		20
<210> 539		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 539		
aagcattggt agagcaaggg		20
<210> 540		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 540		
ccgctggctc tgaaggagtc		20
<210> 541		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 541		
tctagtcagg ctgacctgcg		20
<210> 542		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 542		
gggccacagt gttctaactg		20
<210> 543		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 543		
aatcaagtgt catcacactg		20
<210> 544		

```

<211> 20
<212> DNA
<213> H. sapiens

<400> 544
gggtagtcat aacagtactg                20

<210> 545
<211> 20
<212> DNA
<213> H. sapiens

<400> 545
agagcacacg gtcttcagtg                20

<210> 546
<211> 20
<212> DNA
<213> H. sapiens

<400> 546
ttacagctag agggcctctt                20
<210> 547
<211> 20
<212> DNA
<213> H. sapiens

<400> 547
caccgtgggc atggatatgg                20

<210> 548
<211> 20
<212> DNA
<213> H. sapiens

<400> 548
gggaatctga tgaggaaact                20

<210> 549
<211> 20
<212> DNA
<213> H. sapiens

<400> 549
tgtcaacaag taccactggg                20

<210> 550
<211> 20
<212> DNA
<213> H. sapiens

<400> 550
acctgggata tacactaggg                20

<210> 551
<211> 20
<212> DNA
<213> H. sapiens

<400> 551
ccaagtatag ttggctggac                20

<210> 552
<211> 20
<212> DNA
<213> H. sapiens

```

<400> 552 tacatgaagc ttgctccagg	20
<210> 553 <211> 20 <212> DNA <213> H. sapiens	
<400> 553 atgtcagcct ggtctgtcca	20
<210> 554 <211> 20 <212> DNA <213> H. sapiens	
<400> 554 gcacctccgg aagtacacat	20
<210> 555 <211> 20 <212> DNA <213> H. sapiens	
<400> 555 ctgcagcttc atcctgaaga	20
<210> 556 <211> 20 <212> DNA <213> H. sapiens	
<400> 556 tgagggcaaa gccttgctga	20
<210> 557 <211> 20 <212> DNA <213> H. sapiens	
<400> 557 ccattccaga agggaagcag	20
<210> 558 <211> 20 <212> DNA <213> H. sapiens	
<400> 558 cgaggaaggg caatgtggca	20
<210> 559 <211> 20 <212> DNA <213> H. sapiens	
<400> 559 ccttgtcaac tctgatcagc	20
<210> 560 <211> 20 <212> DNA <213> H. sapiens	
<400> 560 agcagccagt cctgtcagta	20
<210> 561 <211> 20	

<212> DNA  
<213> H. sapiens

<400> 561  
agcatgtggc agaagccatc 20

<210> 562  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 562  
gagagcacca aatccacatc 20

<210> 563  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 563  
cctcagtgat gaagcagtc 20

<210> 564  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 564  
gatagatgtg gtcacctacc 20

<210> 565  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 565  
cctcagcaca gcagctgcga 20

<210> 566  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 566  
gattctgcgg gtcattggaa 20

<210> 567  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 567  
caaagccatc actgatgatc 20

<210> 568  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 568  
agaaagctgc catccaggct 20

<210> 569  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 569

caggaggttc ttcttcagac	DOC0216USSEQ2.txt	20
<210> 570		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 570		
gagtccttca caggcagata		20
<210> 571		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 571		
tgccaatatc ttgaactcag		20
<210> 572		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 572		
catcgagatt ggcttggaag		20
<210> 573		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 573		
ggagctggat tacagttgca		20
<210> 574		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 574		
caacatgcag gctgaactgg		20
<210> 575		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 575		
acattacatt tggctctctac		20
<210> 576		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 576		
ctcaggcgct tactccaacg		20
<210> 577		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 577		
gggacaccag attagagctg		20
<210> 578		
<211> 20		

<212> DNA  
 <213> H. sapiens  
  
 <400> 578  
 gagctccaga gagaggacag 20  
  
 <210> 579  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 579  
 atcggcagag tatgaccttg 20  
  
 <210> 580  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 580  
 caagggtggt atttccatac 20  
  
 <210> 581  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 581  
 gactcatctg ctacagctta 20  
 <210> 582  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 582  
 gcaaatcctc cagagatcta 20  
  
 <210> 583  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 583  
 ctctcctggg tgttctagac 20  
  
 <210> 584  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 584  
 atgaaggctg actctgtggt 20  
  
 <210> 585  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 585  
 gggaccacag atgtctgctt 20  
  
 <210> 586  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 586

ctggccggct caatggagag	DOC0216USSEQ2.txt	20
<210> 587		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 587		
gctgcgttct gaatatcagg		20
<210> 588		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 588		
tgctgacatc ttaggcactg		20
<210> 589		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 589		
aagtgtagtc tcctgggtgct		20
<210> 590		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 590		
caaaattcag tctggatggg		20
<210> 591		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 591		
gggaaactac ggctagaacc		20
<210> 592		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 592		
ctgcatgtgg ctggtaacct		20
<210> 593		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 593		
ccatgaccat cgatgcacat		20
<210> 594		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 594		
atgggaaact cgctctctgg		20
<210> 595		
<211> 20		



<212> DNA	
<213> H. sapiens	
<400> 595	
agtcacatc tcgtgtctag	20
<210> 596	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 596	
gaatacagcc aggacttgga	20
<210> 597	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 597	
ggcgtggagc ttactggacg	20
<210> 598	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 598	
gagatgagag atgccgttga	20
<210> 599	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 599	
agtccttgatg agcactatca	20
<210> 600	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 600	
ctaagtacca aatcagaatc	20
<210> 601	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 601	
gtccatgagt taatcgagag	20
<210> 602	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 602	
aggccacagt tgcagtgtat	20
<210> 603	
<211> 20	
<212> DNA	
<213> H. sapiens	
<400> 603	
tctgattggg ggactcttgc	20

```

<210> 604
<211> 20
<212> DNA
<213> H. sapiens

<400> 604
gaagtcagtc ttcaggctct                20

<210> 605
<211> 20
<212> DNA
<213> H. sapiens

<400> 605
ccagattctc agatgagggg                20

<210> 606
<211> 20
<212> DNA
<213> H. sapiens

<400> 606
catctgtcat tgatgcactg                20

<210> 607
<211> 20
<212> DNA
<213> H. sapiens

<400> 607
aggagatgtc aagggttcgg                20

<210> 608
<211> 20
<212> DNA
<213> H. sapiens

<400> 608
ggaactattg ctagtgaggc                20

<210> 609
<211> 20
<212> DNA
<213> H. sapiens

<400> 609
ctctctccat ggcaaattgc                20
<210> 610
<211> 20
<212> DNA
<213> H. sapiens

<400> 610
caccgtgact tcagtgcaga                20

<210> 611
<211> 20
<212> DNA
<213> H. sapiens

<400> 611
actgagttga ggggccggga                20

<210> 612
<211> 20
<212> DNA

```

<213> H. sapiens

<400> 612  
cacatatgaa ctggacctgc 20

<210> 613  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 613  
tctgaactca gaaggatggc 20

<210> 614  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 614  
ggtgcgaagc agactgaggc 20

<210> 615  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 615  
tcccaccggg acctgcgggg 20

<210> 616  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 616  
caccgggacc tgcggggctg 20

<210> 617  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 617  
ctgagtgcc ttctcggttg 20

<210> 618  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 618  
ctcggttgct gccgctgagg 20

<210> 619  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 619  
tcggttgctg ccgctgagga 20

<210> 620  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 620  
cggttgctgc cgctgaggag 20

<210> 621  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 621  
 gttgctgccg ctgaggagcc 20  
  
 <210> 622  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 622  
 ctgccgctga ggagcccgcc 20  
  
 <210> 623  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 623  
 accgcagctg gcgatggacc 20  
 <210> 624  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 624  
 cagctggcga tggacccgcc 20  
  
 <210> 625  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 625  
 gaacttacta tcatcctcta 20  
  
 <210> 626  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 626  
 tccaattgaa ctttcacata 20  
  
 <210> 627  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 627  
 aaaattcaaa ctgcctatat 20  
  
 <210> 628  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 628  
 gataaaacca tacagtgagc 20  
  
 <210> 629  
 <211> 20  
 <212> DNA

<213> H. sapiens	
<400> 629 ataaaaacat acagtgagcc	20
<210> 630 <211> 20 <212> DNA <213> H. sapiens	
<400> 630 aaccatacag tgagccagcc	20
<210> 631 <211> 20 <212> DNA <213> H. sapiens	
<400> 631 accatacagt gagccagcct	20
<210> 632 <211> 20 <212> DNA <213> H. sapiens	
<400> 632 ccatacagtg agccagcctt	20
<210> 633 <211> 20 <212> DNA <213> H. sapiens	
<400> 633 gtgagccagc cttgcagtag	20
<210> 634 <211> 20 <212> DNA <213> H. sapiens	
<400> 634 ccagccttgc agtaggcagt	20
<210> 635 <211> 20 <212> DNA <213> H. sapiens	
<400> 635 taggcagtag actataagca	20
<210> 636 <211> 20 <212> DNA <213> H. sapiens	
<400> 636 gcagtagact ataagcagaa	20
<210> 637 <211> 20 <212> DNA <213> H. sapiens	
<400> 637 tgaactggac ctgcaccaaa	20

<210> 638  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 638  
 ctggacctgc accaaagctg 20  
  
 <210> 639  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 639  
 ggacctgcac caaagctggc 20  
  
 <210> 640  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 640  
 ctgcaccaaa gctggcacca 20  
  
 <210> 641  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 641  
 accaaagctg gcaccagggc 20  
  
 <210> 642  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 642  
 ctcggaaggt ctctgaactc 20  
  
 <210> 643  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 643  
 aactcagaag gatggcattt 20  
  
 <210> 644  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 644  
 ctcagaagga tggcattttt 20  
 <210> 645  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 645  
 atcaggatct gagttatttt 20  
  
 <210> 646  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 646 aggatctgag ttatTTtgct	20
<210> 647 <211> 20 <212> DNA <213> H. sapiens	
<400> 647 ctgagttatt ttgctaaact	20
<210> 648 <211> 20 <212> DNA <213> H. sapiens	
<400> 648 attttgctaa acttggggga	20
<210> 649 <211> 20 <212> DNA <213> H. sapiens	
<400> 649 taaacttggg ggaggaggaa	20
<210> 650 <211> 20 <212> DNA <213> H. sapiens	
<400> 650 ggaacaaata aatggagtct	20
<210> 651 <211> 20 <212> DNA <213> H. sapiens	
<400> 651 gtttgtaact caagcagaag	20
<210> 652 <211> 20 <212> DNA <213> H. sapiens	
<400> 652 ttgtaactca agcagaaggt	20
<210> 653 <211> 20 <212> DNA <213> H. sapiens	
<400> 653 gtaactcaag cagaaggtgc	20
<210> 654 <211> 20 <212> DNA <213> H. sapiens	
<400> 654 aactcaagca gaaggtgcga	20

<210> 655  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 655  
 ctcaagcaga aggtgcgaag 20  
  
 <210> 656  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 656  
 caagcagaag gtgcgaagca 20  
  
 <210> 657  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 657  
 agcagaaggt gcgaagcaga 20  
  
 <210> 658  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 658  
 cagaagggtgc gaagcagact 20  
 <210> 659  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 659  
 gaagggtgcga agcagactga 20  
  
 <210> 660  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 660  
 aggtgcgaag cagactgagg 20  
  
 <210> 661  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 661  
 gtgcgaagca gactgaggct 20  
  
 <210> 662  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 662  
 gcgaagcaga ctgaggctac 20  
  
 <210> 663  
 <211> 20  
 <212> DNA  
 <213> H. sapiens



<400> 663 gaagcagact gaggctacca	20
<210> 664 <211> 20 <212> DNA <213> H. sapiens	
<400> 664 agcagactga ggctaccatg	20
<210> 665 <211> 20 <212> DNA <213> H. sapiens	
<400> 665 cagactgagg ctaccatgac	20
<210> 666 <211> 20 <212> DNA <213> H. sapiens	
<400> 666 gactgaggct accatgacat	20
<210> 667 <211> 20 <212> DNA <213> H. sapiens	
<400> 667 ctgaggctac catgacattc	20
<210> 668 <211> 20 <212> DNA <213> H. sapiens	
<400> 668 gaggctacca tgacattcaa	20
<210> 669 <211> 20 <212> DNA <213> H. sapiens	
<400> 669 ggctaccatg acattcaaatt	20
<210> 670 <211> 20 <212> DNA <213> H. sapiens	
<400> 670 ctaccatgac attcaaatat	20
<210> 671 <211> 20 <212> DNA <213> H. sapiens	
<400> 671 cctgaagctg catgtggctg	20

<210> 672  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 672  
 tgaagctgca tgtggctggt 20  
 <210> 673  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 673  
 aagctgcatg tggctggtaa 20  
 <210> 674  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 674  
 gctgcatgtg gctggtaacc 20  
 <210> 675  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 675  
 tgcattgtggc ttgtaacctta 20  
 <210> 676  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 676  
 catgtggctg gtaacctaaa 20  
 <210> 677  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 677  
 tgtggctggt aacctaaaag 20  
 <210> 678  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 678  
 tggctggtaa cctaaaagga 20  
 <210> 679  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 679  
 gctggtaacc taaaaggagc 20  
 <210> 680  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 680 tggtaaccta aaaggagcct	20
<210> 681 <211> 20 <212> DNA <213> H. sapiens	
<400> 681 gtaacctaaa aggagcctac	20
<210> 682 <211> 20 <212> DNA <213> H. sapiens	
<400> 682 aacctaaaag gagcctacca	20
<210> 683 <211> 20 <212> DNA <213> H. sapiens	
<400> 683 cctaaaagga gcctaccaaa	20
<210> 684 <211> 20 <212> DNA <213> H. sapiens	
<400> 684 ggcgcgaagc agactgaggc	20
<210> 685 <211> 20 <212> DNA <213> H. sapiens	
<400> 685 cactatgttc atgaggagg	20
<210> 686 <211> 20 <212> DNA <213> H. sapiens	
<400> 686 ccatcatagg ttctgacgtc	20
<210> 687 <211> 20 <212> DNA <213> H. sapiens	
<400> 687 gaagctgatt gactcactca	20
<210> 688 <211> 20 <212> DNA <213> H. sapiens	
<400> 688 ttgtaactca agcagaaggc	20
<210> 689	

<211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 689  
 gtaactcaag cagaaggcgc 20  
  
 <210> 690  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 690  
 aactcaagca gaaggcgcga 20  
  
 <210> 691  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 691  
 ctcaagcaga aggcgcgaag 20  
  
 <210> 692  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 692  
 cagaaggcgc gaagcagact 20  
  
 <210> 693  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 693  
 gaaggcgcga agcagactga 20  
 <210> 694  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 694  
 aggcgcgaag cagactgagg 20  
  
 <210> 695  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 695  
 gcgcgaagca gactgaggct 20  
  
 <210> 696  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 696  
 gaagcagact gaggctacca 20  
  
 <210> 697  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 697 cagaaggcgc gaagcagact	20
<210> 698 <211> 20 <212> DNA <213> H. sapiens	
<400> 698 tctttctcct gtcttacaga	20
<210> 699 <211> 20 <212> DNA <213> H. sapiens	
<400> 699 cccacgttag aagatgcgac	20
<210> 700 <211> 20 <212> DNA <213> H. sapiens	
<400> 700 aatatggttag acatgagcca	20
<210> 701 <211> 20 <212> DNA <213> H. sapiens	
<400> 701 cattagctgc atttcaactg	20
<210> 702 <211> 20 <212> DNA <213> H. sapiens	
<400> 702 actttcactc ctagtctgca	20
<210> 703 <211> 20 <212> DNA <213> H. sapiens	
<400> 703 ccatgtccag gtaagtcag	20
<210> 704 <211> 20 <212> DNA <213> H. sapiens	
<400> 704 gcaccaggca cggatgtgac	20
<210> 705 <211> 20 <212> DNA <213> H. sapiens	
<400> 705 gtgggggtccc agaggcactg	20
<210> 706	

<211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 706  
 gctgatcggc cactgcagct 20  
  
 <210> 707  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 707  
 tccacgtggc tggggaggtc 20  
 <210> 708  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 708  
 tgtaatgtat ggtgatcaga 20  
  
 <210> 709  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 709  
 gagagtaccc agtgggaaat 20  
  
 <210> 710  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 710  
 agtcagcatg ggcttcagcc 20  
  
 <210> 711  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 711  
 caaaagaatg actgtccaac 20  
  
 <210> 712  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 712  
 gaatgactgt ccaacaagtg 20  
  
 <210> 713  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 713  
 tatctactgt aatttaaaat 20  
  
 <210> 714  
 <211> 20  
 <212> DNA  
 <213> H. sapiens

<400> 714 ctgatatggg tggagaacag	20
<210> 715 <211> 20 <212> DNA <213> H. sapiens	
<400> 715 tctgggacag gtatgagctc	20
<210> 716 <211> 20 <212> DNA <213> H. sapiens	
<400> 716 tgatagcagt ggcccttgaa	20
<210> 717 <211> 20 <212> DNA <213> H. sapiens	
<400> 717 ggattggcgt gaaatactgg	20
<210> 718 <211> 20 <212> DNA <213> H. sapiens	
<400> 718 tgcccgaggt tcctcctgcc	20
<210> 719 <211> 20 <212> DNA <213> H. sapiens	
<400> 719 gcactagcaa gaccacactc	20
<210> 720 <211> 20 <212> DNA <213> H. sapiens	
<400> 720 caagaccaca ctctgcatag	20
<210> 721 <211> 20 <212> DNA <213> H. sapiens	
<400> 721 tcctccatag gataccgtgt	20
<210> 722 <211> 20 <212> DNA <213> H. sapiens	
<400> 722 ggatgtaggg cagcaaaacc	20
<210> 723 <211> 20	

<212> DNA  
 <213> H. sapiens  
  
 <400> 723  
 tctgcacaag gactccttgt 20  
  
 <210> 724  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 724  
 cagcctgtct cagtgaacat 20  
  
 <210> 725  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 725  
 caggatgctt ccagtctaata 20  
  
 <210> 726  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 726  
 aaatgctcgt ctccaatctc 20  
  
 <210> 727  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 727  
 aacttgtgta tccaaatcca 20  
  
 <210> 728  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 728  
 tgacatgggtg tgcttccttg 20  
 <210> 729  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 729  
 acactgggtgt tctggctacc 20  
  
 <210> 730  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 730  
 gtgttctggc tacctctagt 20  
  
 <210> 731  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 731



tcctggcata ggtcacagta	DOC0216USSEQ2.txt	20
<210> 732		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 732		
atgtcaacag tagcacctcc		20
<210> 733		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 733		
tagactcaga caagtctgga		20
<210> 734		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 734		
cctaagttgc tcattctctgg		20
<210> 735		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 735		
tgcgctgagt tccatgaaac		20
<210> 736		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 736		
ctattgcagg tgctctccag		20
<210> 737		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 737		
cagaggaaca tcttgacact		20
<210> 738		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 738		
ctctgctcct tactcttgtg		20
<210> 739		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 739		
gtaatttctc accatccatc		20
<210> 740		
<211> 20		

<212> DNA  
 <213> H. sapiens  
  
 <400> 740  
 ttctgagtct caattgtcta 20  
  
 <210> 741  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 741  
 ctatgtcctt gtgtgcacat 20  
  
 <210> 742  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 742  
 gcctattgcc atttgtatgt 20  
 <210> 743  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 743  
 ctattcatgt cctttgccta 20  
  
 <210> 744  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 744  
 gattctgcgg gtaatctcag 20  
  
 <210> 745  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 745  
 tcaatgcagg tcattggaaa 20  
  
 <210> 746  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 746  
 ctaccagatt gaccatccct 20  
  
 <210> 747  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 747  
 tacttgatag tgctctagga 20  
  
 <210> 748  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 748

ttgactgcag gaccaggagg	DOC0216USSEQ2.txt	20
<210> 749		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 749		
aacaaacact tgtgcaaatg		20
<210> 750		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 750		
aatgagacca aacttccact		20
<210> 751		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 751		
ttccactttg aagctagcaa		20
<210> 752		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 752		
gatctggagc ttattcttga		20
<210> 753		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 753		
acctcatgtg acttgatgc		20
<210> 754		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 754		
ttcttaagaa acaccttgta		20
<210> 755		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 755		
taggcccatc ctggctgcat		20
<210> 756		
<211> 20		
<212> DNA		
<213> H. sapiens		
<400> 756		
aaactctcag gatatggtaa		20
<210> 757		
<211> 20		
<212> DNA		

<213> H. sapiens  
 <400> 757  
 ataccttcct ctacctttgc 20  
 <210> 758  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 758  
 tacctttgct gaaggtcctt 20  
 <210> 759  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 759  
 atctatctag tgaaatttct 20  
 <210> 760  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 760  
 tcagctcatc aaaatatgct 20  
 <210> 761  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 761  
 atatgctagt ccttcctttc 20  
 <210> 762  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 762  
 caaaggctctg agttatccag 20  
 <210> 763  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 763  
 tgacttatag atgcaggctg 20  
 <210> 764  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 764  
 tcagtggagg gtaattcttt 20  
 <210> 765  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 765  
 tgcctagcca gtttgaaaga 20

<210> 766  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 766  
 cctgcagaat tttgccaggc 20  
  
 <210> 767  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 767  
 gtagctaggt aggtaaagca 20  
  
 <210> 768  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 768  
 ttgagtgaga cacacaaggc 20  
  
 <210> 769  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 769  
 gtgctagtca gggaatgcat 20  
  
 <210> 770  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 770  
 ggggagagag catgcccagc 20  
 <210> 771  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 771  
 gcatgcccag ctgcgaaagc 20  
  
 <210> 772  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 772  
 agccaggtat agaaaggagt 20  
  
 <210> 773  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 773  
 aactttctaa gaggcagaat 20  
  
 <210> 774  
 <211> 20  
 <212> DNA

<213> H. sapiens  
 <400> 774  
 tcttagtctg gtcattgagtg 20  
 <210> 775  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 775  
 agtaggagat ttcattatgaa 20  
 <210> 776  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 776  
 tcttcaccag caacacatta 20  
 <210> 777  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 777  
 atggccacct agcattggcac 20  
 <210> 778  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 778  
 catgtttctg agcctccaga 20  
 <210> 779  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 779  
 taggtggctc cctgtcttca 20  
 <210> 780  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 780  
 tccaaagtct tgggaatcct 20  
 <210> 781  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 781  
 acaaagaaag ggggagttgg 20  
 <210> 782  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
 <400> 782  
 tcgtgtcttc ctggcccaga 20

```

<210> 783
<211> 20
<212> DNA
<213> H. sapiens

<400> 783
gcagtgccca gcacacaata                20

<210> 784
<211> 20
<212> DNA
<213> H. sapiens

<400> 784
actcgtccag gtgcgaagca                20
<210> 785
<211> 20
<212> DNA
<213> H. sapiens

<400> 785
gccacctaag gtaaagaagg                20

<210> 786
<211> 20
<212> DNA
<213> H. sapiens

<400> 786
atcagagtgg cagagagagc                20

<210> 787
<211> 20
<212> DNA
<213> H. sapiens

<400> 787
tttaccatag ttgtgacaca                20

<210> 788
<211> 20
<212> DNA
<213> H. sapiens

<400> 788
cattttgtag gcaatgagct                20

<210> 789
<211> 20
<212> DNA
<213> H. sapiens

<400> 789
gcattagtaa acatgagaac                20

<210> 790
<211> 20
<212> DNA
<213> H. sapiens

<400> 790
ttcatttcag cgatggccgg                20

<210> 791
<211> 20
<212> DNA

```

<213> H. sapiens

<400> 791  
gaaaatctag tgtcattcaa 20  
<210> 792  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 792  
tcctatacag ttttggaac 20

<210> 793  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 793  
aaggacttca gtatggagct 20

<210> 794  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 794  
atggagcttt tattgaattg 20

<210> 795  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 795  
ccatcagcac tattatttat 20

<210> 796  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 796  
ataggcaagc tcagccatag 20

<210> 797  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 797  
tgctagatga gatacatcaa 20

<210> 798  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 798  
gaagaccaaa catggttcta 20

<210> 799  
<211> 20  
<212> DNA  
<213> H. sapiens

<400> 799  
ctctgttag tcctctccag 20



<210> 800  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 800  
 cattgataaa atgttctggc 20  
  
 <210> 801  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 801  
 tctggcacag caaacctct 20  
  
 <210> 802  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 802  
 tggcacagca aaacctctag 20  
  
 <210> 803  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 803  
 tagaacacat agtgtgattt 20  
  
 <210> 804  
 <211> 20  
 <212> DNA  
 <213> H. sapiens  
  
 <400> 804  
 aacacatagt gtgatttaag 20  
  
 <210> 805  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 805  
 ctttccgttg gacccctggg 20  
  
 <210> 806  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 806  
 tcccgctgt gacatgcatt 20  
  
 <210> 807  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 807

ttctacctcg cgcgatttac

20

&lt;210&gt; 808

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; O. cuniculus

&lt;400&gt; 808

gatcttacct tctccaagca aaatgcattg ctacgtgctg agtatcaggc tgattacaag 60

tcactgaggt tcttcaccct gctttctggg ttgttgaata cccatgggtct tgaattaaat 120

gctgacatct tgggcactga caaaatgaat actgctgctc acaaggcaac tctaagaatt 180

ggccaaaatg gagtatctac cagtgcaca accagcttga ggtacagtcc cctgatgctg 240

gagaatgagc tgaacgcaga gcttgccctt tctggggcat ctatgaaatt agcaacaaat 300

ggccgcttca aggaacacaa tgcaaaattc agcctagatg ggaaagctac cctcacagag 360

ttatccctgg gaagcgctta ccaggccatg attctgggtg ctgacagcaa gaacattttc 420

aacttcaaga tc 432

&lt;210&gt; 809

&lt;211&gt; 660

&lt;212&gt; DNA

&lt;213&gt; O. cuniculus

&lt;400&gt; 809

ctgggaaaac tcccacagca agttaatgat tatctgagta cattcaattg ggagagacaa 60

gtttccagtg ccaaggagaa actaactact ttcacaaaaa attataaaat tacagagaat 120

gatatacaaa ctgcattgga taatgccaaa atcaacttaa atgaaaaact gtctcaactt 180

cagacatatg tgatataatt tgatcagtat attaaagata attttgatct acatgatattt 240

aaaatagcta tagctagtat tatagatcaa atcatggaaa aattaaaaat tcttgatgaa 300

cgttatcata tccgtgcaca ttttaattaaa tcaatccata atttatattt gtttattgaa 360

gctattgatt ttaacaaaat tggaagtagt actgcatctt ggattcaaaa tgtggatacc 420

aagtatcaag tcagaatctg gatacaagaa atattgcaac agtttaagac acagattcag 480

aatacaaaaca tcccatacct ggctgaaaaa ctgaaacaac agattgaggc tattgatgtc 540

agagtgcttt tagatcaatt gagaactaca attccatttc gtataataaa ggacattatt 600

gaacatttca aatactttgt tataaatatt attgaaaatt ttgaagtaat tgacaaaatc 660

&lt;210&gt; 810

&lt;211&gt; 543

&lt;212&gt; DNA

&lt;213&gt; O. cuniculus

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> (45)  
 <223> n = a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (118)  
 <223> n = a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (148)  
 <223> n = a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (173)  
 <223> n = a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (180)  
 <223> n = a, c, g, or t

<400> 810  
 cagaacatcg gagacaacgc attggatttt ctactaaat cttanaatga agcaaaaatt 60  
 aagtttgata agtacaaagt tgaaaaatcg ctcaacaggc tccccaggac ctttcagnct 120  
 cctggataca ttattccaat tttcaatntt gaagtatctc cactcacaat agnagacgtn 180  
 agcattcagt catgtgatcc caaaatcaat aagcaccccc aatgtcacca tcctggattc 240  
 aagcttctat gtgccttcat atacattggc tctgccatcc ctagagctgc cagtcttcca 300  
 tgtccccagg aatctactca aggtctctct tccagatttc aaggaattga aaaccattaa 360  
 caatattttt attccagcca tgggcaacat tacctatgaa ttttccttca aatcaacgat 420  
 cattacactg aataccaatg ctggacttta taaccaatca gacattgttg cccatattct 480  
 ttcttcctct tcattctgtca ttgatgcact acagtacaaa ttagagggca cgctcaagtt 540  
 tga 543

<210> 811  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 811  
 aagcaccccc aatgtcacc 19

<210> 812  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 812  
 gggatggcag agccaatgta 20

<210> 813  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Probe

<400> 813  
 tcctggattc aagcttctat gtgccttca

29

<210> 814  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 814  
 tgcttgaga aggttaagatc

20

<210> 815  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 815  
 gcgttgcttc cgatgttctg

20

<210> 816  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 816  
 taatcattaa cttgctgtgg

20

<210> 817  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 817  
 tcagcacgta gcaatgcatt

20

<210> 818  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 818  
gcctgatact cagcacgtag 20

<210> 819  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Antisense Oligonucleotide

<400> 819  
caattgaatg tactcagata 20

<210> 820  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Antisense Oligonucleotide

<400> 820  
acctcagtga cttgtaatca 20

<210> 821  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Antisense Oligonucleotide

<400> 821  
cactggaaac ttgtctctcc 20

<210> 822  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Antisense Oligonucleotide

<400> 822  
agtagttagt ttctccttgg 20

<210> 823  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Antisense Oligonucleotide

<400> 823  
tcagtgccca agatgtcagc 20

<210> 824  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 824  
attggaataa tgtatccagg 20

<210> 825  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 825  
ttggcattat ccaatgcagt 20

<210> 826  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 826  
gttgccctgt gagcagcagt 20

<210> 827  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 827  
attgtgagtg gagatacttc 20

<210> 828  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 828  
catatgtctg aagttgagac 20

<210> 829  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 829  
gtagatactc cattttggcc 20

<210> 830  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 830  
 ggatcacatg actgaatgct 20

<210> 831  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 831  
 tcaagctggt tgttgactg 20

<210> 832  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 832  
 ggactgtacc tcaagctggt 20

<210> 833  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 833  
 gctcattctc cagcatcagg 20

<210> 834  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 834  
 ttgatctata atactagcta 20

<210> 835  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 835

atggaagact ggcagctcta

20

<210> 836

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 836

ttgtgttcct tgaagcggcc

20

<210> 837

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 837

tgtgcacgga tatgataacg

20

<210> 838

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 838

gaccttgagt agattcctgg

20

<210> 839

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 839

gaaatctgga agagagacct

20

<210> 840

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 840

gtagctttcc catctaggct

20

<210> 841



<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 841  
gataactctg tgagggtagc 20

<210> 842  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 842  
atgttgccca tggctggaat 20

<210> 843  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 843  
aagatgcagt actacttcca 20

<210> 844  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 844  
gcacccagaa tcatggcctg 20

<210> 845  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 845  
cttgatactt ggtatccaca 20

<210> 846  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 846 cagtgtaatg atcgttgatt	20
<210> 847 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 847 taaagtccag catttgtatt	20
<210> 848 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 848 caacaatgtc tgattggtta	20
<210> 849 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 849 gaagaggaag aaaggatatg	20
<210> 850 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 850 tgacagatga agaggaagaa	20
<210> 851 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> Antisense Oligonucleotide	
<400> 851 ttgtactgta gtgcatcaat	20
<210> 852 <211> 20 <212> DNA <213> Artificial Sequence	

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 852

gcctcaatct gttgtttcag

20

&lt;210&gt; 853

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 853

acttgagcgt gccctcta

20

&lt;210&gt; 854

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 854

gaaatggaat tgtagttctc

20

&lt;210&gt; 855

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; M. fascicularis

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (7)

&lt;223&gt; n = A,T,C or G

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (469)..(474)

&lt;223&gt; n = A,T,C or G

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (476)..( 479)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 855

tgcgtcnaga ctccgcccc tactatccgc tgaccgggga caccagatta gagctggaac 60  
 tgaggcctac aggagaagtt gagcagtatt ctgtcagtgc aacctatgag ctccagagag 120  
 aggacagagc cttggtggac accctgaagt ttgtaactca agcagaaggt gtaaagcaga 180  
 ctgaggctac catgacattc aaatataatc ggcagagtat gaccttgtcc agtgaagtcc 240  
 aaattccgga ttttgagggt gaccttgga caatcctcag agttaatgat gaatctactg 300  
 agggcagaaa gtcttacaga ctaccctgg acattcagaa ccagaaaatt actgagggtca 360  
 ccctcatggg ccacctaagt tgtgacacaa aggaagaagg aaaaatcaaa ggtgttattt 420  
 ccgtaccccc tttgcaagca gaagccagaa gtgagatcct cgccacann nnnnannnn 479

&lt;210&gt; 856

<211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 856  
 gtccctcaac atctgaatgc 20

<210> 857  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 857  
 ctgctagcct ctggatttga 20

<210> 858  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 858  
 ccttcctga aggttcctcc 20

<210> 859  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 859  
 ctcttactgt gctgtggaca 20

<210> 860  
 <211> 13938  
 <212> DNA  
 <213> H. sapiens

<400> 860  
 ctgggattgg gacacacttt ctggacactg ctggccagtc ccaaaatgga acataaggaa 60  
 gtggttcttc tacttctttt atttctgaaa tcagcagcac ctgagcaaag ccatgtgggtc 120  
 caggattgct accatgggtga tggacagagt tatcgaggca cgtactccac cactgtcaca 180  
 ggaaggacct gccaaagcttg gtcattctatg acaccacatc aacataatag gaccacagaa 240  
 aactacccaa atgctggctt gatcatgaac tactgcagga atccagatgc tgtggcagct 300  
 ccttattgtt atacgaggga tcccgggtgtc aggtgggagt actgcaacct gacgcaatgc 360  
 tcagacgcag aagggaactgc cgtcgcgcct ccgactgtta ccccggttcc aagcctagag 420  
 gctccttccg aacaagcacc gactgagcaa aggcctgggg tgcaggagtg ctaccatggt 480  
 aatggacaga gttatcgagg cacatactcc accactgtca caggaagaac ctgccaaagt 540  
 tggatcatcta tgacaccaca ctgcgatagt cggaccccag aatactacct aaatgctggc 600  
 ttgatcatga actactgcag gaattccagt gctgtggcag ctcttattg ttatacgagg 660  
 gatccccggtg tcagggtggga gtactgcaac ctgacgcaat gctcagacgc agaagggact 720  
 gccgtcgcgc ctccgactgt taccgccggtt ccaagcctag aggctcctc cgaacaagca 780  
 ccgactgagc aaaggccttg ggtgcaggag tgctaccatg gtaatggaca gagttatcga 840  
 ggcacatact ccaccactgt cacaggaaga acctgccaaag cttggtcac tatgacacca 900  
 cactcgcata gtcggacccc agaatactac ccaaattgctg gcttgatcat gaactactgc 960  
 aggaatccag atgctgtggc agctccttat tggtatacga gggatcccgg tgtcagggtg 1020  
 gagtactgca acctgacgca atgctcagac gcagaaggga ctgccgtcgc gcctccgact 1080

## DOC0216USSEQ2.txt

gttaccgccg	ttccaagcct	agaggctcct	tccgaacaag	caccgactga	gcaaaggcct	1140
ggggtgcagg	agtgtctacca	tggtaatgga	cagagttatc	gaggcacata	ctccaccact	1200
gtcacaggaa	gaacctgccca	agcttggtca	tctatgacac	cacactcgca	tagtcggacc	1260
ccagaatact	acccaaatgc	tggtttgatc	atgaactact	gcaggaatcc	agatgctgtg	1320
gcagctcctt	attgtttatac	gagggatccc	ggtgtcaggt	gggagtactg	caacctgacg	1380
caatgctcag	acgcagaagg	gactgccgtc	gcgcctccga	ctgttaccct	ggttccaagc	1440
ctagaggctc	cttccgaaca	agcaccgact	gagcaaaggc	ctggggtgca	ggagtgtctac	1500
catggtaatg	gacagagtta	tcgaggcaca	tactccacca	ctgtcacagg	aagaacctgc	1560
caagcttggg	catctatgac	accacactcg	catagtgcga	ccccagaata	ctacccaaat	1620
gctggcttga	tcatgaacta	ctgcaggaat	ccagatgctg	tggcagctcc	ttattgttat	1680
acgagggatc	ccggtgtcag	gtgggagtac	tgcaacctga	cgcaatgttc	agacgcagaa	1740
gggactgccg	tcgcgcctcc	gactgttacc	ccggttccaa	gcctagaggc	tccttccgaa	1800
caagcaccga	ctgagcaaaag	gcctgggggtg	caggagtgtc	accatggtaa	tggaacagagt	1860
tatcgaggca	catactccac	cactgtcaca	ggaagaacct	gccaagcttg	gtcatctatg	1920
acaccacact	cgcatagtcg	gacccagaaa	tactacccaa	atgctggctt	gatcatgaac	1980
tactgcagga	atccagatgc	tgtggcagct	ccttattgtt	atacgaggga	tcccgggtgtc	2040
aggtgggagt	actgcaacct	gacgcaatgc	tcagacgcag	aagggactgc	cgctcgcgct	2100
ccgactgtta	ccccggttcc	aagcctagag	gctccttccg	aacaagcacc	gactgagcaa	2160
aggcctgggg	tgcaggagtgc	ctaccatggt	aatggacaga	gttatcgagg	cacatactcc	2220
accactgtca	caggaagaag	ctgccaaagt	ttgtcatcta	tgacaccaca	ctcgcatagt	2280
cggaccccg	aatactaccc	aaatgctggc	ttgatcatga	actactgcag	gaatccagat	2340
gctgtggcag	ctccttattg	ttatacgagg	gatccccggtg	tcaggtggga	gtactgcaac	2400
ctgacgcaat	gctcagacgc	agaagggact	gccgtcgcgc	ctccgactgt	taccccggtt	2460
ccaagcctag	aggctccttc	cgaacaagca	ccgactgagc	aaaggcctgg	gggtgcaggag	2520
tgctaccatg	gtaatggaca	gagttatcga	ggcacatact	ccaccactgt	cacaggaaga	2580
acctgccaa	cttggtcatc	tatgacacca	cactcgcata	gtcggacccc	agaatactac	2640
ccaaatgctg	gcttgatcat	gaactactgc	aggaatccag	atgctgtggc	agctccttat	2700
tggtatcacga	gggatccccg	tgtcagggtg	gagtactgca	acctgacgca	atgctcacat	2760
gcagaaggga	ctgcccgtcg	gcctccgact	gttaccgccg	ttccaagcct	agaggctcct	2820
tccgaacaag	caccgactga	gcaaaggcct	ggggtgcagg	agtgtctacca	tggtaatgga	2880
cagagttatc	gaggcacata	ctccaccact	gtcacaggaa	gaacctgccca	agcttgggtca	2940
tctatgacac	cacactcgca	tagtcggacc	ccagaatact	acccaaatgc	tggtttgatc	3000
atgaactact	gcaggaatcc	agatgctgtg	gcagctcctt	attgtttatac	gagggatccc	3060
ggtgtcaggt	gggagtactg	caacctgacg	caatgctcag	acgcagaagg	gactgccgtc	3120
gcgcctccga	ctgttaccct	ggttccaagc	ctagaggctc	cttccgaaca	agcaccgact	3180
gagcaaaggc	ctgggggtgca	ggagtgtctac	catggtaatg	gacagagtta	tcgaggcaca	3240
tactccacca	ctgttcacagg	aagaacctgc	caagcttggg	catctatgac	accacactcg	3300
catagtccga	ccccagaata	ctacccaa	gctggcttga	tcatgaacta	ctgcaggaat	3360
ccagatgctg	tggcagctcc	ttattgttat	acgagggatc	ccggtgtcag	gtgggagtac	3420
tgcaacctga	cgcaatgttc	agacgcagaa	gggactgccg	tcgcgcctcc	gactgttacc	3480
ccggttccaa	gcctagaggc	tccttccgaa	caagcaccga	ctgagcaaa	gcctgggggtg	3540
caggagtgtc	acatgtgtaa	tggaacaggt	tatcgaggga	catactccac	cactgtcaca	3600
ggaagaacct	gccaagcttg	gtcatctatg	acaccacact	cgcatagtgc	gacccagaa	3660
tactacccaa	atgctggctt	gatcatgaac	tactgcagga	atccagatgc	tgtggcagct	3720
ccttattgtt	atacgaggga	tcccgggtgtc	aggtgggagt	actgcaacct	gacgcaatgc	3780
tcagacgcag	aagggactgc	cgctcgcctt	ccgactgtta	ccccggttcc	aagcctagag	3840
gctccttccg	aacaagcaca	gactgagcaa	aggcctgggg	tgaggagtgc	ctaccatggt	3900
aatggacaga	gttatcgagg	cacatactcc	accactgtca	caggaagaac	ctgccaaagt	3960
tggtcatcta	tgacaccaca	ctcgcatagt	cggaccccg	aatactaccc	aaatgctggc	4020
ttgatcatga	actactgcag	gaatccagat	gctgtggcag	ctccttattg	ttatacgagg	4080
gatccccggtg	tcaggtggga	gtactgcaac	ctgacgcaat	gctcagacgc	agaagggact	4140
gccgtcgcgc	ctccgactgt	taccccggtt	ccaagcctag	aggctccttc	cgaacaagca	4200
ccgactgagc	aaaggcctgg	ggtgcaggag	tgctaccatg	gtaatggaca	gagttatcga	4260
ggcacatact	ccaccactgt	cacaggaaga	acctgccaa	cttggtcatc	tatgacacca	4320
cactcgcata	gtcggacccc	agaatactac	ccaaagtctg	gcttgatcat	gaactactgc	4380
aggaatccag	atgctgtggc	agctccttat	tggtatacga	gggatccccg	tgctcaggtg	4440
gagtactgca	acctgacgca	atgctcagac	gcagaaggga	ctgccgtcgc	gcctccgact	4500
gttaccgccg	ttccaagcct	agaggctcct	tccgaacaag	caccgactga	gcaaaggcct	4560
ggggtgcagg	agtgtctacca	tggtaatgga	cagagttatc	gaggcacata	ctccaccact	4620
gtcacaggaa	gaacctgccca	agcttggtca	tctatgacac	cacactcgca	tagtcggacc	4680
ccagaatact	acccaaatgc	tggtttgatc	atgaactact	gcaggaatcc	agatgctgtg	4740
gcagctcctt	attgtttatac	gagggatccc	ggtgtcaggt	gggagtactg	caacctgacg	4800
caatgctcag	acgcagaagg	gactgccgtc	gcgcctccga	ctgttaccct	ggttccaagc	4860
ctagaggctc	cttccgaaca	agcaccgact	gagcaaaggc	ctgggggtgca	ggagtgtctac	4920
catggtaatg	gacagagtta	tcgaggcaca	tactccacca	ctgtcacagg	aagaacctgc	4980
caagcttggg	catctatgac	accacactcg	catagtgcga	ccccagaata	ctacccaaat	5040
gctggcttga	tcatgaacta	ctgcaggaat	ccagatgctg	tggcagctcc	ttattgttat	5100

## DOC0216USSEQ2.txt

acgagggatc	ccggtgtcag	gtgggagtag	tgcaacctga	cgcaatgctc	agacgcagaa	5160
gggactgccg	tcgcgcctcc	gactgttacc	ccggttccaa	gcctagaggc	tccttccgaa	5220
caagcaccga	ctgagcaaag	gcctgggggtg	caggagtgtc	accatggtaa	tggacagagt	5280
tatcgaggca	catactccac	cactgtcaca	ggaagaacct	gccaagcttg	gtcatctatg	5340
acaccacact	cgcatagtcg	gacccagaa	tactacccaa	atgctggctt	gatcatgaac	5400
tactgcagga	atccagatgc	tgtggcagct	ccttattgtt	atacgaggga	tcccgggtgtc	5460
aggtgggagt	actgcaacct	gacgcaatgc	tcagacgcag	aagggactgc	cgtcgcgcct	5520
ccgactgtta	ccccgggttc	aagcctagag	gctccttccg	aacaagcacc	gactgagcaa	5580
aggcctgggg	tgcaggagtgt	ctaccatggt	aatggacaga	gttatcgagg	cacatactcc	5640
accactgtca	caggaagaac	ctgccaagct	tgggtcatcta	tgacaccaca	ctcgcatagt	5700
cggaccccg	aatactaccc	aaatgctggc	ttgatcatga	actactgcag	gaatccagat	5760
gctgtggcag	ctccttattg	ttatacgagg	gatcccgggtg	tcaggtggga	gtactgcaac	5820
ctgacgcaat	gctcagacgc	agaagggact	gccgtcgcgc	ctccgactgt	taccccggtt	5880
ccaagcctag	aggctccttc	cgaacaagca	ccgactgagc	aaaggcctgg	ggtgcaggag	5940
tgctaccatg	gtaattgcga	gagttatcga	ggcacatact	ccaccactgt	cacaggaaga	6000
acctgccaa	cttggtcatc	tatgacacca	cactcgcata	gtcggacccc	agaatactac	6060
ccaaatgctg	gcttgatcat	gaactactgc	aggaatccag	atgctgtggc	agctccttat	6120
tgttatacga	gggatccccg	tgtcaggtgg	gagtactgca	acctgacgca	atgctcagac	6180
gcgaaggga	gtcccgctcg	gcctccgact	gttaccctcg	ttccaagcct	agaggctcct	6240
tccgaacaag	caccgactga	gcaaaggcct	ggggtgcagg	agtgtacca	tggtaatgga	6300
cagagttatc	gaggcacata	ctccaccact	gtcacaggaa	gaacctgcca	agcttgggtca	6360
tctatgacac	cacactcgca	tagtcggacc	ccagaatact	acccaaatgc	tggcttgatc	6420
atgaactact	gcaggaatcc	agatgctgtg	gcagctcctt	attgttatac	gagggatccc	6480
ggtgtcagg	gggagtactg	caactgtcag	caatgtctcag	acgcagaagg	gactgccgtc	6540
gcgcctccga	ctgttaccct	ggttccaagc	ctagaggctc	cttccgaaca	agcaccgact	6600
gagcaaaggc	ctgggggtgca	ggagtgtac	catggtaatg	gacagagtta	tcgaggcaca	6660
tactccacca	ctgtcacagg	aagaacctgc	caagcttggt	catctatgac	accacactcg	6720
catagtccga	ccccagaata	ctaccctaat	gctggcttga	tcatgaacta	ctgcaggaa	6780
ccagatgctg	tggcagctcc	ttattgttat	acgaggatc	ccggtgtcag	gtgggagtag	6840
tgcaacctga	cgcaatgtc	agacgcagaa	gggactgccg	tcgcgcctcc	gactgttacc	6900
ccggttccaa	gcctagaggc	tccttccgaa	caagcaccga	ctgagcaaag	gcctgggggtg	6960
caggagtgtc	accatggtaa	tggacagagt	tatcgaggca	catactccac	cactgtcaca	7020
ggaagaacct	cccaagcttg	gtcatctatg	atccacact	cgcatagtgc	gacccagaa	7080
tactacccaa	atgctggctt	gatcatgaac	tactgcagga	atccagatgc	tgtggcagct	7140
ccttattgtt	atacgaggga	tcccgggtgtc	aggtgggagt	actgcaacct	gacgcaatgc	7200
tcagacgcag	aagggactgc	cgtcgcgcct	ccgactgtta	ccccgggttc	aagcctagag	7260
gctccttccg	aacaagcacc	gactgagcaa	aggcctgggg	tgacaggagt	ctaccatggt	7320
aatggacaga	gttatcgagg	cacatactcc	accactgtca	caggaagaac	ctgccaagct	7380
tgggtcatcta	tgacaccaca	ctcgcatagt	cggaccccg	aatactaccc	aaatgctggc	7440
ttgatcatga	actactgcag	gaatccagat	gctgtggcag	ctccttattg	ttatacgagg	7500
gatcccgggtg	tcaggtggga	gtactgcaac	ctgacgcaat	gctcagacgc	agaagggact	7560
gccgtcgcgc	ctccgactgt	tacccggtt	ccaagcctag	aggctccttc	cgaacaagca	7620
ccgactgagc	aaaggcctgg	ggtgcaggag	tgctaccatg	gtaatggaca	gagttatcga	7680
ggcacatact	ccaccactgt	cacaggaaga	acctgccaa	cttggtcatc	tatgacacca	7740
cactcgcata	gtcggacccc	agaatactac	ccaaatgctg	gcttgatcat	gaactactgc	7800
aggaatccag	atgctgtggc	agctccttat	tgttatacga	gggatcccg	tgtcagggtg	7860
gagtactgca	acctgagcga	atgctcagac	gcagaaggga	ctgccgtcgc	gcctccgact	7920
gttaccctcg	ttccaagcct	agaggctcct	tccgaacaag	caccgactga	gcagaggcct	7980
gggggtgcagg	agtgtacca	cggtaatgga	cagagttatc	gaggcacata	ctccaccact	8040
gtcactggaa	gaacctgcca	agcttgggtca	tctatgacac	cacactcgca	tagtcggacc	8100
ccagaatact	acccaaatgc	tggcttgatc	atgaactact	gcaggaatcc	agatgctgtg	8160
gcagctcctt	attgttatac	gagggatccc	ggtgtcaggt	gggagtactg	caacctgacg	8220
caatgtctcag	acgcagaagg	gactgccgtc	gcgcctccga	ctgttaccct	ggttccaagc	8280
ctagaggctc	cttccgaaca	agcaccgact	gagcaaaggc	ctgggggtgca	ggagtgtac	8340
catggtaatg	gacagagtta	tcgaggcaca	tactccacca	ctgtcacagg	aagaacctgc	8400
caagcttggt	catctatgac	accacactcg	catagtccga	ccccagaata	ctaccctaat	8460
gctggcttga	tcatgaacta	ctgcaggaat	ccagatgctg	tggcagctcc	ttattgttat	8520
acgagggatc	ccggtgtcag	gtgggagtag	tgcaacctga	cgcaatgctc	agacgcagaa	8580
gggactgccg	tcgcgcctcc	gactgttacc	ccggttccaa	gcctagaggc	tccttccgaa	8640
caagcaccga	ctgagcaaag	gcctgggggtg	caggagtgtc	accatggtaa	tggacagagt	8700
tatcgaggga	catactccac	cactgtcaca	ggaagaacct	gccaagcttg	gtcatctatg	8760
acaccacact	cgcatagtcg	gacccagaa	tactacccaa	atgctggctt	gatcatgaac	8820
tactgcagga	atccagatgc	tgtggcagct	ccttattgtt	atacgaggga	tcccgggtgtc	8880
aggtgggagt	actgcaacct	gacgcaatgc	tcagacgcag	aagggactgc	cgtcgcgcct	8940
ccgactgtta	ccccggttcc	aagcctagag	gctccttccg	aacaagcacc	gactgagcag	9000
aggcctgggg	tgcaggagtgt	ctaccacggt	aatggacaga	gttatcgagg	cacatactcc	9060
accactgtca	ctggaagaac	ctgccaagct	tgggtcatcta	tgacaccaca	ctcgcatagt	9120

## DOC0216USSEQ2.txt

cggacccag	aatactaccc	aaatgctggc	ttgatcatga	actactgcag	gaatccagat	9180
gctgtggcag	ctccttattg	ttatacgagg	gatccccggtg	tcaggtggga	gtactgcaac	9240
ctgacgcaat	gctcagacgc	agaagggact	gccgtcgcgc	ctccgactgt	taccccggtt	9300
ccaagcctag	aggctccttc	cgaacaagca	ccgactgagc	agaggccttg	ggtgcaggag	9360
tgctaccacg	gtaatggaca	gagttatcga	ggcacatact	ccaccactgt	cactggaaaga	9420
acctgccaa	cttggctatc	tatgacacca	cactcgcata	gtcggacccc	agaatactac	9480
ccaaatgctg	gcttgatcat	gaactactgc	aggaatccag	atgctgtggc	agctccttat	9540
tgttatacga	gggatccccg	tgtcaggtgg	gagtactgca	acctgacgca	atgctcagac	9600
gcagaaggga	ctgccgtcgc	gcctccgact	gttaccgccg	ttccaagcct	agaggctcct	9660
tccgaacaag	caccgactga	gcagaggcct	ggggtgcagg	agtgtacca	cggtaatgga	9720
cagagttatc	gaggcacata	ctccaccact	gtcactggaa	gaacctgcca	agcttgggtca	9780
tctatgacac	cacactcgca	tagtcggacc	ccagaatact	acccaaatgc	tggcttgatc	9840
atgaactact	gcaggaatcc	agatgctgtg	gcagctcctt	attgtttatac	gagggatccc	9900
ggtgtcagg	gggagtactg	caacctgacg	caatgctcag	acgcagaagg	gactgccgtc	9960
gcgcctccga	gtgttaccgc	gggtccaagc	ctagaggctc	cttccgaaca	agcaccgact	10020
gagcagaggc	ctggggtgca	ggagtgtctac	cacggtaatg	gacagagtta	tcgaggcaca	10080
tactccacca	ctgtcactgg	aagaacctgc	caagcttgggt	catctatgac	accacactcg	10140
catagtccga	ccccagaata	ctacccaaat	gctggcttga	tcatgaacta	ctgcaggaat	10200
ccagatcctg	tggcagcccc	ttattgttat	acgagggtac	ccagtgtcag	gtgggagtac	10260
tgcaacctga	cacaatgctc	agacgcagaa	gggactgccg	tcgcgcctcc	aactattacc	10320
ccgattccaa	gcctagaggc	tccttctgaa	caagcaccaa	ctgagcaaag	gcctgggggtg	10380
caggagtgtc	accacggaaa	tggacagagt	tatcaaggca	catacttcat	tactgtcaca	10440
ggaagaacct	gccaagcttg	gtcatctatg	acaccacact	cgcatagtgc	gacccagca	10500
tactacccaa	attgtggctt	gatcaagaac	tactgccgaa	atccagatcc	tgtggcagcc	10560
ccttgggtgtt	atacaacaga	tcccagtgct	aggtgggagt	actgcaacct	gacacgatgc	10620
tcagatgcag	aatggactgc	cttcgtccct	ccgaatgtta	ttctggctcc	aagcctagag	10680
gctttttttg	aacaagcact	gactgaggaa	acccccgggg	tacaggactg	ctactaccat	10740
tatggacaga	gttaccggag	cacatactcc	accactgtca	caggaagaac	ttgccaagct	10800
tggctcatcta	tgacaccaga	ccagcatagt	cggacccag	aaaactaccc	aaatgctggc	10860
ctgaccagga	actactgcag	gaatccagat	gctgagattc	gcccttgggtg	ttacaccatg	10920
gatcccagtg	tcaggtggga	gtactgcaac	ctgacacaat	gcctgggtgac	agaatcaagt	10980
gtccttgcaa	ctctcacggt	ggtcccagat	ccaagcacag	aggcttcttc	tgaagaagca	11040
ccaacggagc	aaagccccgg	gggtccaggat	tgctaccagt	gtgatggaca	gagttatcga	11100
ggctcattct	ctaccactgt	cacaggaagg	acatgtcagt	cttggctctc	tatgacacca	11160
cactggcatc	agaggacaac	agaatattat	ccaaatgggtg	gcctgaccag	gaactactgc	11220
aggaatccag	atgctgagat	tagtccttgg	tggtatacca	tggatcccaa	tgctcagatgg	11280
gagtactgca	acctgacaca	atgtccagtg	acagaaatcaa	gtgtccttgc	gacgtccacg	11340
gctgtttctg	aacaagcacc	aacggagcaa	agccccacag	tccaggactg	ctaccatggt	11400
gatggacaga	gttatcgagg	ctcattctcc	accactgtta	caggaaggac	atgtcagtct	11460
tggctcctcta	tgacaccaca	ctggcatcag	agaaccacag	aatactaccc	aaatgggtggc	11520
ctgaccagga	actactgcag	gaatccagat	gctgagattc	gcccttgggtg	ttataccatg	11580
gatcccagtg	tcagatggga	gtactgcaac	ctgacggcaat	gtccagtgat	ggaatcaact	11640
ctcctcacaa	ctccacgggt	gggtccaggt	ccaagcacag	agcttccttc	tgaagaagca	11700
ccaactgaaa	acagcactgg	gggtccaggac	tgctaccgag	gtgatggaca	gagttatcga	11760
ggcacactct	ccaccactat	cacaggaaga	acatgtcagt	cttggctcgtc	tatgacacca	11820
cattggcatc	ggaggatccc	attatactat	ccaaatgctg	gcctgaccag	gaactactgc	11880
aggaatccag	atgctgagat	tcgccccttg	tggttacacca	tggatcccag	tgctcaggtgg	11940
gagtactgca	acctgacacg	atgtccagtg	acagaatcga	gtgtcctcac	aactcccaca	12000
gtggccccgg	ttccaagcac	agaggctcct	tctgaacaag	caccacctga	gaaaagccct	12060
gtggtccagg	attgtctacca	tgggtgatgga	cggagtattc	gaggcataatc	ctccaccact	12120
gtcacaggaa	ggacctgtca	atcttgggtca	tctatgatac	cacactggga	tcagaggacc	12180
ccagaaaact	acccaaatgc	tggcctgacc	gagaactact	gcaggaatcc	agattctggg	12240
aaacaaccct	ggtgttacac	aaccgatccg	tgtgtgaggt	gggagtactg	caatctgaca	12300
caatgctcag	aaacagaatc	aggtgtccta	gagactccca	ctgttgttcc	agttccaagc	12360
atggaggctc	attctgaagc	agcaccaact	gagcaaaccc	ctgtgggtccg	gcagtgtctac	12420
catggtaatg	gccagagtta	tcgaggcaca	ttctccacca	ctgtcacagg	aaggacatgt	12480
caatcttgggt	catccatgac	accacaccgg	catcagagga	ccccagaaaa	ctacccaaat	12540
gatggcctga	caatgaacta	ctgcaggaat	ccagatgccg	atacaggccc	ttgggtgtttt	12600
accatggacc	ccagcatcag	gtgggagtac	tgcaacctga	cgcgatgctc	agacacagaa	12660
gggactgtgg	gactgtctcc	gactgtctac	caggttccaa	gcctagggcc	tccttctgaa	12720
caagactgta	tgtttgggaa	tgggaaagga	taccggggca	agaaggcaac	cactgttact	12780
gggacgccat	gccaggaatg	ggctgcccag	gagccccata	gacacagcac	gttcattcca	12840
gggacaaaata	aatgggcagg	tctggaaaaa	aattactgcc	gtaaccctga	tggtgacatc	12900
aatggtccct	ggtgctacac	aatgaatcca	agaaaacttt	ttgactactg	tgatattcct	12960
ctctgtgcatt	cctcttcatt	tgtattgtgg	agacctcaag	tggagccgaa	gaaatgtcct	13020
ggaagcattg	taggggggtg	tgtggccac	ccacattcct	ggccctggca	agtcagtctc	13080
agaacaaggt	ttggaaagca	cttctgtgga	ggcaccttaa	tatccccaga	gtgggtgctg	13140

## DOC0216USSEQ2.txt

```

actgctgctc actgcttgaa gaagtcctca aggccttcat cctacaaggt catcctgggt 13200
gcacaccaag aagtgaacct cgaatctcat gttcaggaaa tagaagtgtc taggctgttc 13260
ttggagccca cacaagcaga tattgccttg ctaaagctaa gcaggcctgc cgatcatcact 13320
gacaaagtaa tgccagcttg tctgccatcc ccagactaca tggtcaccgc caggactgaa 13380
tgttacatca ctggctgggg agaaacccaa ggtacctttg ggactggcct tctcaaggaa 13440
gcccagctcc ttgttattga gaatgaagtg tgcaatcact ataagtatat ttgtgctgag 13500
catttggcca gaggcactga cagttgccag ggtgacagtg gagggcctct ggtttgcttc 13560
gagaaggaca aatacathtt acaaggagtc acttcttggg gtcttggctg tgcacgcccc 13620
aataagcctg gtgtctatgc tcgtgtttca aggtttgtta cttggattga gggaaatgatg 13680
agaaataatt aattggacgg gagacagagt gaagcatcaa cctacttaga agctgaaacg 13740
tgggtaagga tttagcatgc tggaaataat agacagcaat caaacgaaga cactgttccc 13800
agctaccagc tatgccaaac cttggcattt ttggattttt tgtgtataag cttttaagggt 13860
ctgactgaca aattctgtat taagggtgtca tagctatgac atttgtaaaa aataaactct 13920
gcacttattt tgatttga                               13938

```

<210> 861  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 861  
 cagctcctta ttgttatacg aggga 25

<210> 862  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 862  
 tgcgtctgag cattgcgt 18

<210> 863  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Probe

<400> 863  
 cccggtgtca ggtgggagta ctgc 24

<210> 864  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 864  
 gcctcagtct tcttcgcacc 20

<210> 865  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide



<400> 865  
 gcctcagtct tattcgcacc 20  
 <210> 866  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 866  
 gcctcagtat tattcgcacc 20  
 <210> 867  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 867  
 gcctcattat tattcgcacc 20  
 <210> 868  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 868  
 gcctcattat tattagcacc 20  
 <210> 869  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 869  
 gcctcattat tattatcacc 20  
 <210> 870  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 870  
 gcctaattat tattatcacc 20  
 <210> 871  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <223> Antisense Oligonucleotide  
 <400> 871

gcctcagtct gcttcgcac	DOC0216USSEQ2.txt	19	
<210> 872 <211> 18 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 872 gcctcagtct gcttcgca			18
<210> 873 <211> 15 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 873 gcctcagtct gcttc			15
<210> 874 <211> 18 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 874 cctcagtctg cttcgac			18
<210> 875 <211> 16 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 875 ctcagtctgc ttcgca			16
<210> 876 <211> 14 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 876 tcagtctgct tcgc			14
<210> 877 <211> 10 <212> DNA <213> Artificial Sequence  <220> <223> Antisense Oligonucleotide  <400> 877 gcctcagtct			10

<210> 878	
<211> 10	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Oligonucleotide	
<400> 878	
gcttcgcacc	10
<210> 879	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Oligonucleotide	
<400> 879	
uugaagccau acaccucuuu	20
<210> 880	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Oligonucleotide	
<400> 880	
ugaccaggac ugccuguucu	20
<210> 881	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Oligonucleotide	
<400> 881	
gaauagggcu guagcuguuaa	20
<210> 882	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Oligonucleotide	
<400> 882	
uauacugauc aaauuguauc	20
<210> 883	
<211> 20	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Antisense Oligonucleotide	
<400> 883	
uggaauucug guaугugaag	20

<210> 884  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 884  
 aaaucaaaug auugcuuugu 20  
  
 <210> 885  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 885  
 gugaugacac uugauuuaaa 20  
  
 <210> 886  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 886  
 gaagcugccu cuucuuccca 20  
  
 <210> 887  
 <211> 20  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 887  
 gagaguuggu cugaaaaauc 20  
  
 <210> 888  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 888  
 gtgcgcgcga gcccgaatc 20  
  
 <210> 889  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 889  
 cuucuggcau ccgguuuagt t 21  
  
 <210> 890

<211> 466  
 <212> DNA  
 <213> M. fascicularis

<220>  
 <221> misc\_feature  
 <222> 9  
 <223> n = A,T,C or G

<400> 890  
 ggatcggcng accctgagct gcatatggct ggtaatctaa aaggagccta caaaataaat 60  
 gaaataaaac acatctatac catctcttct gctgccttat cagcaagcta caaagcagac 120  
 actgttgcta aggttcaggg tgtggagttt agccatcggc tcaacacaga catcgctggg 180  
 ctggcttcag ccattgacat tagcacaac tataattcag actcattgca tttcagcaat 240  
 gtcttccatt ctgtaatggc tccatttacc atgaccattg atacacatac aaatggcaac 300  
 gggaaacttg ttctctgggg agaacatact gggcagctgt atagcaaatt cctgttgaaa 360  
 gcagaacctc tggcattcac tttctctcat gattacaaag gctccacgag tcatcatctc 420  
 atgtctagga aaagcatcag tgcagctctt gaacacaaag tcagta 466

<210> 891  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 891  
 gcctcagtct gctttacacc 20

<210> 892  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 892  
 agattaccag ccatatgcag 20

<210> 893  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide

<400> 893  
 cgagaggcgg acgggaccg 19

<210> 894  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Oligonucleotide

<400> 894  
 cgagaggcgg acgggaccgt t 21

<210> 895  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
<223> Synthetic Oligonucleotide

<400> 895  
ttgctctccg cctgccctgg c 21

<210> 896  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Oligonucleotide

<400> 896  
gctctccgcc tgccctggc 19

<210> 897  
<211> 20  
<212> DNA  
<213> M. musculus

<400> 897  
agattaccag ccatatgcag 20